

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

**Form 10-K**

☒ **ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the fiscal year ended December 31, 2022

Or

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934**

For the transition period from to

Commission file number: 001-32877



**Mastercard Incorporated**

(Exact name of registrant as specified in its charter)

Delaware  
(State or other jurisdiction of  
incorporation or organization)

13-4172551  
(IRS Employer  
Identification Number)

2000 Purchase Street  
Purchase, NY  
(Address of principal executive offices)

10577  
(Zip Code)

(914) 249-2000  
(Registrant's telephone number, including area code)

**Securities registered pursuant to Section 12(b) of the Act:**

Title of each class	Trading Symbol	Name of each exchange of which registered
Class A Common Stock, par value \$0.0001 per share	MA	New York Stock Exchange
2.1% Notes due 2027	MA27	New York Stock Exchange
1.0% Notes due 2029	MA29A	New York Stock Exchange
2.5% Notes due 2030	MA30	New York Stock Exchange

**Securities registered pursuant to Section 12(g) of the Act:**

Class B common stock, par value \$0.0001 per share

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

Yes ☒ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.

Yes ☐ No ☒

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes ☒ No ☐

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act. (Check One):

Large accelerated filer	<input checked="" type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input type="checkbox"/> (do not check if a smaller reporting company)	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input type="checkbox"/>

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13 (a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. ☒

If securities are registered pursuant to Section 12(b) of the Act, indicate by check mark whether the financial statements of the registrant included in the filing reflect the correction of an error to previously issued financial statements. ☐

Indicate by check mark whether any of those error corrections are restatements that required a recovery analysis of incentive-based compensation received by any of the registrant's executive officers during the relevant recovery period pursuant to §240.10D-1(b). ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☒

The aggregate market value of the registrant's Class A common stock, par value \$0.0001 per share, held by non-affiliates (using the New York Stock Exchange closing price as of June 30, 2022, the last business day of the registrant's most recently completed second fiscal quarter) was approximately \$270.1 billion. There is currently no established public trading market for the registrant's Class B common stock, par value \$0.0001 per share. As of February 8, 2023, there were 945,723,000 shares outstanding of the registrant's Class A common stock, par value \$0.0001 per share and 7,519,534 shares outstanding of the registrant's Class B common stock, par value \$0.0001 per share.

Portions of the registrant's definitive proxy statement for the 2023 Annual Meeting of Stockholders are incorporated by reference into Part III hereof.

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*In this Report on Form 10-K ("Report"), references to the "Company," "Mastercard," "we," "us" or "our" refer to the business conducted by Mastercard Incorporated and its consolidated subsidiaries, including our operating subsidiary, Mastercard International Incorporated, and to the Mastercard brand.*

## Forward-Looking Statements

This Report contains forward-looking statements pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. All statements other than statements of historical facts may be forward-looking statements. When used in this Report, the words "believe", "expect", "could", "may", "would", "will", "trend" and similar words are intended to identify forward-looking statements. Examples of forward-looking statements include, but are not limited to, statements that relate to the Company's future prospects, developments and business strategies.

Many factors and uncertainties relating to our operations and business environment, all of which are difficult to predict and many of which are outside of our control, influence whether any forward-looking statements can or will be achieved. Any one of those factors could cause our actual results to differ materially from those expressed or implied in writing in any forward-looking statements made by Mastercard or on its behalf, including, but not limited to, the following factors:

- regulation directly related to the payments industry (including regulatory, legislative and litigation activity with respect to interchange rates and surcharging)
- the impact of preferential or protective government actions
- regulation of privacy, data, security and the digital economy
- regulation that directly or indirectly applies to us based on our participation in the global payments industry (including anti-money laundering, counter financing of terrorism, economic sanctions and anti-corruption, account-based payments systems, and issuer and acquirer practice regulation)
- the impact of changes in tax laws, as well as regulations and interpretations of such laws or challenges to our tax positions
- potential or incurred liability and limitations on business related to any litigation or litigation settlements
- the impact of competition in the global payments industry (including disintermediation and pricing pressure)
- the challenges relating to rapid technological developments and changes
- the challenges relating to operating a real-time account-based payments system and to working with new customers and end users
- the impact of information security incidents, account data breaches or service disruptions
- issues related to our relationships with our stakeholders (including loss of substantial business from significant customers, competitor relationships with our customers, consolidation amongst our customers, merchants' continued focus on acceptance costs and unique risks from our work with governments)
- the impact of global economic, political, financial and societal events and conditions, including adverse currency fluctuations and foreign exchange controls as well as events and resulting actions related to the Russian invasion of Ukraine
- the impact of the global COVID-19 pandemic and measures taken in response
- reputational impact, including impact related to brand perception and lack of visibility of our brands in products and services
- the impact of environmental, social and governance matters and related stakeholder reaction
- the inability to attract and retain a highly qualified and diverse workforce, or maintain our corporate culture
- issues related to acquisition integration, strategic investments and entry into new businesses
- exposure to loss or illiquidity due to our role as guarantor and other contractual obligations
- issues related to our Class A common stock and corporate governance structure

Please see "Risk Factors" in Part I, Item 1A for a complete discussion of these risk factors. We caution you that the important factors referenced above may not contain all of the factors that are important to you. Our forward-looking statements speak only as of the date of this Report or as of the date they are made, and we undertake no obligation to update our forward-looking statements.

# PART I

Item 1. Business

Item 1A. Risk factors

Item 1B. Unresolved staff comments

Item 2. Properties

Item 3. Legal proceedings

Item 4. Mine safety disclosures

Information about our executive officers

# Item 1. Business




## Overview

Mastercard is a technology company in the global payments industry. We connect consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide by enabling electronic payments instead of cash and checks and making those payment transactions safe, simple, smart and accessible. We make payments easier and more efficient by providing a wide range of payment solutions and services using our family of well-known and trusted brands, including Mastercard®, Maestro® and Cirrus®. We operate a multi-rail payments network that provides choice and flexibility for consumers, merchants and our customers. Through our unique and proprietary core global payments network, we switch (authorize, clear and settle) payment transactions. We have additional payment capabilities that include automated clearing house (“ACH”) transactions (both batch and real-time account-based payments). Using these capabilities, we offer integrated payment products and services and capture new payment flows. Our value-added services include, among others, cyber and intelligence solutions to allow all parties to transact easily and with confidence, as well as other services that provide proprietary insights, drawing on our principled use of secure consumer and merchant data. Our investments in new networks, such as open banking solutions and digital identity capabilities, support and strengthen our payments and services solutions. Our franchise model sets the standards and ground-rules for our core global payments network that balance value and risk across all stakeholders and allows for interoperability among them. Our payment solutions are designed to ensure safety and security for the global payments ecosystem.

For a full discussion of our business, please see page 9.

## Our Performance

The following are our key financial and operational highlights for 2022, including growth rates over the prior year:

GAAP		
Net revenue <b>\$22.2B</b> up 18%	Net income <b>\$9.9B</b> up 14%	Diluted EPS <b>\$10.22</b> up 17%
Non-GAAP <sup>1</sup> (currency-neutral)		
Adjusted net revenue <b>\$22.2B</b> up 23%	Adjusted net income <b>\$10.3B</b> up 32%	Adjusted diluted EPS <b>\$10.65</b> up 34%
<b>\$10.7B</b> in capital returned to stockholders	<b>\$8.8B</b> Repurchased shares <b>\$1.9B</b> Dividends paid	<b>\$11.2B</b> cash flows from operations
 Gross dollar volume (growth on a local currency basis) <b>\$8.2T</b> up 12%	 Cross-border volume growth (on a local currency basis) <b>up 45%</b>	 Switched transactions <b>125.7B</b> up 12%

<sup>1</sup> Non-GAAP results (including growth rates) exclude the impact of gains and losses on equity investments, Special Items and/or foreign currency. See “Management’s Discussion and Analysis of Financial Condition and Results of Operations - Financial Results Overview” in Part II, Item 7 for the reconciliation to the most direct comparable GAAP financial measures.

The following chart provides gross dollar volume (“GDV”) and number of cards featuring our brands in 2022 for select programs and solutions:

Mastercard-branded Programs <sup>1, 2</sup>	GDV			Cards	
	Year Ended December 31, 2022			As of December 31, 2022	
	(in billions)	Growth (Local)	% of Total GDV	(in millions)	% Increase from December 31, 2021
Consumer Credit	\$ 3,143	15 %	38 %	992	3 %
Consumer Debit and Prepaid	4,012	8 %	49 %	1,617	7 %
Commercial Credit and Debit	1,023	24 %	13 %	122	11 %

<sup>1</sup> Excludes Maestro and Cirrus cards and volume generated by those cards.

<sup>2</sup> Prepaid includes both consumer and commercial prepaid.

For a full discussion of our results of operations, see “Management’s Discussion and Analysis of Financial Condition and Results of Operations” in Item II, Part 7.

## Our Strategy

Our strategy centers on growing our core payments network, diversifying our customers and geographies and building new capabilities through a combination of organic and inorganic strategic initiatives. We are executing on this strategy through a focus on three key priorities:

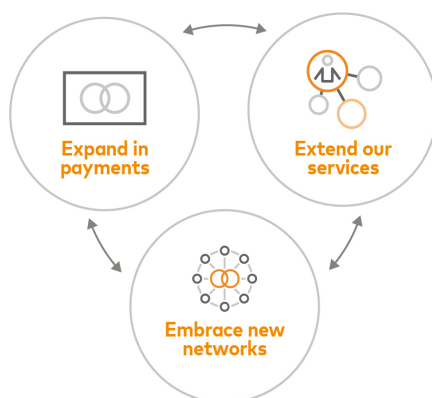
- expand in payments for consumers, businesses and governments
- extend our services to enhance transactions and drive customer value
- embrace new network opportunities to enable open banking, digital identity and other adjacent network capabilities

Each of our priorities supports and builds upon each other and are fundamentally interdependent.

### Our strategy



### Our key priorities



### Powering our success



## Our Key Strategic Priorities

**Expand in payments.** We focus on expanding upon our core payments network to enable payment flows for consumers, businesses, governments and others, providing them with choice and flexibility to transact across multiple payment rails (including cards, real-time payments, account-to-account transactions, crypto and others) while ensuring that all payments are safe, secure and seamless. We do so by:

- **Driving growth in consumer payments** with a focus on accelerating digitization, growing acceptance and pursuing an expanded set of use cases, including through partnerships
- **Capturing new payment flows** by expanding our multi-rail capabilities and applications to penetrate key flows such as disbursements and remittances, commercial point of sale transactions, business-to-business (“B2B”) accounts payable flows and consumer bill payments
- **Leaning into new payment innovations** such as our piloting in 2022 of Mastercard Installments (our buy-now-pay-later solution) and developing solutions that support digital currencies and blockchain applications

**Extend our services.** Our services drive value for our customers and the broader payments ecosystem. These services include cyber and intelligence solutions, insights and analytics, consulting, marketing services, loyalty, processing and payment gateway solutions for e-commerce merchants. As we drive value, our services generate revenue while helping to accelerate our overall financial performance by supporting revenue growth in payments and new network opportunities. We extend our services by:

- **Enhancing the value of payments** by making payments safe, secure, intelligent and seamless
- **Expanding services to new segments and use cases** to address the needs of a larger set of customers, including financial institutions, merchants, governments, digital players and others, while expanding our geographic reach
- **Supporting and strengthening new network capabilities**, including expanding services associated with digital identities and deploying our expertise in open banking and open data, including with improved analytics

**Embrace new network opportunities.** We are building and managing new adjacent network capabilities to power commerce and payments, creating new opportunities to develop and embed services. We do so by:

- **Applying our open banking solutions** to help institutions and individuals exchange consumer-permissioned data securely and easily by enabling the reliable access, transmission and management of consumer data (including for opening new accounts, securing loans, increasing credit scores and enabling consumer choice in money movement and personal finance management)
- **Enabling digital identity solutions** to instill trust in the digital world and ensure that payments across consumers, companies, devices and virtual entities are efficient, safe and secure

**Each of our priorities supports and builds upon each other and are fundamentally interdependent:**

- **Payments** provide data and distribution to drive scale and differentiation in services and enable the development and adoption of new network capabilities
- **Services** improve the security, efficiency and intelligence of payments, improve portfolio performance, differentiate our offerings, strengthen our customer relationships and support our open banking and digital identity platforms
- **New network opportunities** strengthen our digital payments value proposition, including improved authentication with digital identity, and new opportunities to develop and embed services in our expanding product offerings

## Powering Our Success

These priorities are supported by six key drivers:

**People.** Our success is driven by the skills, experience, integrity and mindset of our people. We attract and retain top talent from diverse backgrounds and industries. Our people and our winning culture is based on decency, respect and inclusion where people have opportunities to perform purpose-driven work that impacts communities, customers and co-workers on a global scale. The diversity and skill sets of our people underpin everything we do.

**Brand.** Our brands and brand identities serve as a differentiator for our business, representing our values and enabling us to accelerate growth in new areas.



**Data.** We use our data assets, infrastructure and platforms to create a range of products and services for our customers, while incorporating our data principles in how we design, implement and deliver those solutions. Our Privacy by Design and Data by Design processes have been developed to ensure we embed privacy, security and data controls in all of our products and services, keeping a clear focus on protecting customers' and individuals' data.

**Technology.** Our technology provides resiliency, scalability and flexibility in how we serve customers. It enables broader reach to scale digital payment services to multiple channels, including mobile devices. Our technology standards, services and governance model help us to serve as the connection that allows financial institutions, financial technology companies (fintechs) and others to interoperate and enable consumers, businesses, governments and merchants to engage through digital channels.

**Franchise.** We manage an ecosystem of stakeholders who participate in our network. Our franchise creates and sustains a comprehensive series of value exchanges across our ecosystem. We provide a balanced ecosystem where all participants benefit from the availability, innovation and safety and security of our network and platforms. Our franchise enables the scale of our payments network and helps ensure our multiple payment capabilities operate under a single governance structure, which can be extended to new opportunities.

**Doing Well by Doing Good.** Sustainable impact is fundamental to our business strategy, and we leverage our employees, technology, resources, partnerships and expertise to address social, economic and environmental challenges. Our environmental, social and governance ("ESG") priorities are expressed through three pillars - People, Prosperity, Planet - and all of the work we do is grounded in strong governance principles. For more information, please reference our most recently published Corporate Sustainability Report and Proxy Statement (each located on our website).

## Our Business

### Our Multi-Rail Network and Payment Capabilities

We enable a wide variety of payment capabilities (including integrated products and value-added services and solutions) over our multi-rail network among account holders, merchants, financial institutions, businesses, governments and others, offering our customers one partner for their payment needs.

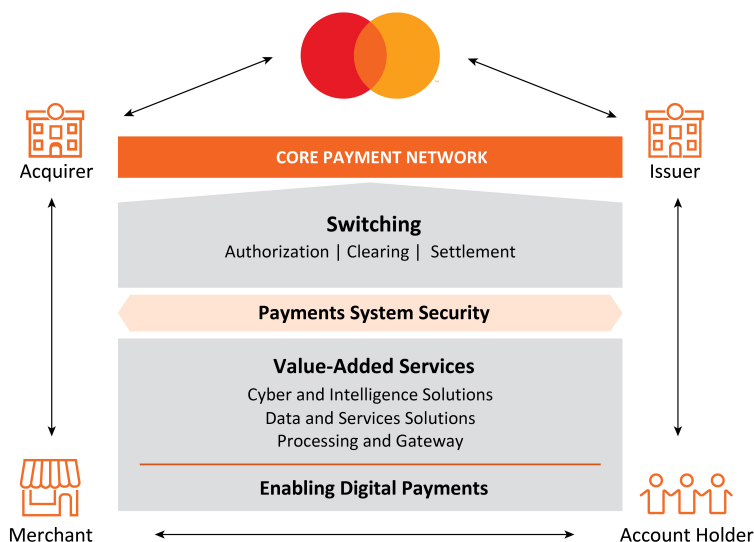
#### Payment Network

Our core payment network links issuers and acquirers around the globe to facilitate the switching of transactions, permitting account holders to use a Mastercard product at tens of millions of acceptance locations worldwide. This network facilitates an efficient, safe and secure means for receiving payments, a convenient, quick and secure payment method for consumers to access their funds and a channel for businesses to receive insight through information that is derived from our network. We enable transactions for our customers through our core payment network in more than 150 currencies and in more than 210 countries and territories.

**Payment Network Transactions.** Our core payment network supports what is often referred to as a “four-party” payments network and includes the following participants: account holder (a person or entity who holds a card or uses another device enabled for payment), issuer (the account holder’s financial institution), merchant and acquirer (the merchant’s financial institution).

We do not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants’ acceptance of our products. In most cases, account holder relationships belong to, and are managed by, our customers.

The following graphic depicts a typical transaction on our core payment network and our role in that transaction, which includes payment security, value-added services and the enablement of digital payments:



In a typical transaction, an account holder purchases goods or services from a merchant using one of our payment products. After the transaction is authorized by the issuer, the issuer pays the acquirer an amount equal to the value of the transaction, minus the interchange fee (described below) and other applicable fees, and then posts the transaction to the account holder’s account. The acquirer pays the amount of the purchase, net of a discount (referred to as the “merchant discount” rate), to the merchant.

- **Interchange Fees.** Interchange fees reflect the value merchants receive from accepting our products and play a key role in balancing the costs and benefits that consumers and merchants derive. Generally, interchange fees are collected from acquirers and paid to issuers to reimburse the issuers for a portion of the costs incurred. These costs are incurred by issuers in providing services that benefit all participants in the system, including acquirers and merchants, whose participation in the network enables increased sales to their existing and new customers, efficiencies in the delivery of existing and new products, guaranteed payments and improved customer experience. We (or, alternatively, financial institutions) establish “default interchange fees” that apply when there are no other established settlement terms in place between an issuer and an acquirer. We administer the collection and remittance of interchange fees through the settlement process.

- **Additional Four-Party System Fees.** The merchant discount rate is established by the acquirer to cover its costs of both participating in the four-party system and providing services to merchants. The rate takes into consideration the amount of the interchange fee which the acquirer generally pays to the issuer. Additionally, acquirers may charge merchants processing and related fees in addition to the merchant discount rate. Issuers may also charge account holders fees for the transaction, including, for example, fees for extending revolving credit.

#### Switched Transactions

- **Authorization, Clearing and Settlement.** Through our core payment network, we enable the routing of a transaction to the issuer for its approval, facilitate the exchange of financial transaction information between issuers and acquirers after a successfully conducted transaction, and settle the transaction by facilitating the exchange of funds between parties via settlement banks chosen by us and our customers.
- **Cross-Border and Domestic.** Our core payment network switches transactions throughout the world when the merchant country and country of issuance are different ("cross-border transactions"), providing account holders with the ability to use, and merchants to accept, our products and services across country borders. We also provide switched transaction services to customers where the merchant country and the country of issuance are the same ("domestic transactions"). We switch over 60% of all transactions for Mastercard and Maestro-branded cards, including nearly all cross-border transactions.

We guarantee the settlement of many of the transactions from issuers to acquirers to ensure the integrity of our core payment network. We refer to the amount of this guarantee as our settlement exposure. We do not, however, guarantee payments to merchants by their acquirers or the availability of unspent prepaid account holder account balances.

**Payment Network Architecture.** Our core payment network features a globally integrated structure that provides scale for our issuers, enabling them to expand into regional and global markets. It is based largely on a distributed (peer-to-peer) architecture that enables the network to adapt to the needs of each transaction. The network accomplishes this by performing intelligent routing and applying multiple value-added services (such as fraud scoring, tokenization services, etc.) to appropriate transactions in real time. This architecture enables us to connect all parties regardless of where or how the transaction is occurring. It has 24-hour a day availability and world-class response time.

#### Additional Payment Capabilities

**ACH Batch and Real-Time Account-Based Payments Infrastructure.** We offer ACH batch and real-time account-based payments capabilities, enabling payments for ACH transactions between bank accounts in real-time. These capabilities provide consumers and businesses the ability to make instant (faster) payments while providing enhanced data and messaging capabilities. We build, implement, enhance and operate real-time clearing and settlement infrastructure, payment platforms and direct debit systems for jurisdictions globally. As of December 31, 2022, we either operated or were implementing real-time payments infrastructure in 12 of the top 50 markets as measured by GDP. We also use our real-time payments capabilities to enable new payment flows, such as consumer bill payments using our real-time bill pay solutions.

**Account-to-Account.** We enable consumers, businesses, governments and merchants to send and receive money directly from account-to-account. We apply these capabilities to help these stakeholders with various disbursements and remittances.

We discuss below under "Our Payment Products and Applications" the ways in which we apply our real-time account-based and account-to-account payment capabilities to capture new payment flows.

#### Security and Franchise

**Payments System Security.** We have a multi-layered approach to protect the global payments ecosystem. As part of this approach, we have a robust program to protect our network from cyber and information security threats. Our network and platforms incorporate multiple layers of protection, providing greater resiliency and best-in-class security protection. Our programs are assessed by third parties and incorporate benchmarking and other data from peer companies and consultants. We engage in many efforts to mitigate information security challenges, including maintaining an information security program, an enterprise resilience program and insurance coverage, as well as regularly testing our systems to address potential vulnerabilities. Through the combined efforts of our Security Operations Centers, Fusion Centers and the Mastercard Intelligence Center, we work with experts across the organization (as well as through other sources such as public-private partnerships) to monitor and respond quickly to a range of cyber and physical threats.

As another feature of our multi-layered approach to protect the global payments ecosystem, we work with issuers, acquirers, merchants, governments and payments industry associations to develop and put in place technical standards (such as EMV standards for chips and smart payment cards) for safe and secure transactions and we provide solutions and products that are designed to ensure safety and security for the global payments ecosystem. Our approach includes supporting small businesses by

sharing best practices and providing access to free utilities and services, benefiting both them and the entire payments ecosystem. We discuss specific cyber and intelligence solutions that we offer to our customers in “Our Value-Added Services”.

**Our Franchise.** We manage an ecosystem of stakeholders that participate in our network and payments platforms. Our franchise creates and sustains a comprehensive series of value exchanges across our ecosystem. We ensure a balanced ecosystem where all participants benefit from the availability, innovation, safety and security of our network. We achieve this through the following key activities:

- **Participant Onboarding.** We ensure the ability of new customers to use our network and define the roles and responsibilities for their operations once on the network
- **Safety and Security.** We establish the core principles, including ensuring consumer protections and integrity, so participants feel confident to transact on the network
- **Operating Standards.** We define the operational, technical and financial policies to which network participants are required to adhere
- **Responsible Stewardship.** We establish performance standards to support ecosystem growth and optimization and establish proactive monitoring to ensure participant performance
- **Issue Resolution.** We operate a framework to enable the resolution of disputes between our network participants

Our Payment Products and Applications

We provide a wide variety of integrated products and services that support payment products that customers can offer to consumers and merchants. These offerings facilitate transactions across our multi-rail payments network and platforms among account holders, merchants, financial institutions, digital partners, businesses, governments and other organizations in markets globally.



Consumer Payment Products

**Consumer Credit.** We offer a number of products that enable issuers to provide consumers with credit, allowing them to defer payment. These programs are designed to meet the needs of our customers around the world and address standard, premium and affluent consumer segments.

**Consumer Debit.** We support a range of payment products and solutions that allow our customers to provide consumers with convenient access to funds in deposit and other accounts. Our debit and deposit access programs can be used to make purchases and to obtain cash in bank branches, at ATMs and, in some cases, at the point of sale. Our branded debit programs consist of Mastercard (including standard, premium and affluent offerings), Maestro (the only PIN-based solution that operates globally) and Cirrus (our primary global cash access solution).

**Prepaid.** Prepaid accounts are a type of electronic payment that enables consumers to pay in advance whether or not they previously had a bank account or a credit history. These accounts can be tailored to meet specific program, customer or consumer needs, such as paying bills, sending person-to-person payments or withdrawing cash from an ATM. Our focus ranges from digital accounts (such as fintech and gig economy platforms) to business programs such as employee payroll, health savings accounts and solutions for small business owners. Our prepaid programs also offer opportunities in the private and public sectors to drive financial inclusion of previously unbanked individuals through social security payments, unemployment benefits and salary cards.

How We Benefit Consumers

- We enable our customers to benefit consumers by:
- making electronic payments more convenient, secure and efficient
  - delivering better, seamless consumer experiences
  - providing consumers choice, empowering them to make and receive payments in the ways that best meet their daily needs
  - protecting consumers and all other participants in a transaction, as well as consumer data
  - providing loyalty rewards and benefits



## New Payment Flows

We offer platforms that apply our multi-rail payment capabilities to capture new payment flows, enabling us to serve the needs of a significant addressable market.

**Disbursements and Remittances.** We offer applications that enable consumers, businesses, governments and merchants to send and receive money domestically and across borders with greater speed and ease.

- Using Mastercard Send™, we partner with digital messaging and payment platforms to enable consumers in approximately 50 markets to send money directly within applications to other consumers in more than 100 markets. We

partner with central banks, fintechs and financial institutions to help governments and nonprofits more efficiently enable, as applicable, distribution of social and economic assistance and business-to-consumer (“B2C”) disbursements across more than 40 use cases (such as wallet funding, cash payouts, gig worker payouts and insurance claims).

- Mastercard Cross-Border Services enables a wide range of payment flows and use cases to customers (including trade payments, remittances and disbursements). These flows are enabled via a distribution network with a single point of access that allows financial institutions, fintechs and digital partners to send and receive money globally through multiple channels, including bank accounts, mobile wallets, cards and cash payouts with payout reach in more than 140 receive markets.

**Commercial Point of Sale.** We offer commercial credit, debit and prepaid payment products and solutions that meet the payment needs of large corporations, midsize companies, small businesses and government entities. Our solutions streamline procurement and payment processes, manage information and expenses (such as travel and entertainment) and reduce administrative costs. Our point of sale offerings include:

- Small business cards (credit, debit and prepaid) tailored to small and medium businesses.
- Commercial travel and entertainment, procurement and fleet cards, consisting mostly of credit cards and associated platforms for corporations to manage travel and expense, procurement and fleet expenses. Our Mastercard Smart Data™ platform provides expense management and reporting capabilities.

**B2B Accounts Payable.** We offer solutions that enable businesses or governments to make payments to businesses with whom they have a trusted relationship for goods and services. Our solutions include Virtual Card Number (VCN), which is generated dynamically off a physical card and leverages the credit limit of the funding account and may include the use of Mastercard InControl™, our virtual card platform that allows buyers to pay suppliers using a one-time use card number that can be set with transaction level controls, providing unmatched configurability and flexibility.

Additionally, we offer a platform to optimize supplier payment enablement campaigns for financial institutions, as well as our treasury intelligence platform that provides corporations with recommendations to improve working capital performance and accelerate spend on cards.

**Consumer Bill Payments.** We offer bill pay solutions to enable consumers and small businesses to pay their billers in a seamless and secure way. Our bill pay solutions include the enablement of enhanced biller setup and expanded bill presentment that make it easier for consumers and small businesses to present, view, manage and pay their bills through their online or mobile banking apps. These solutions facilitate payment choice using multiple payment rails (including real-time account-based payments) and deliver immediate payment confirmation, providing an experience that benefits consumers, financial institutions and billers.

### Key 2022 Developments

- In 2022, our Disbursements and Remittances capabilities achieved a payout reach of nearly 10 billion endpoints globally across multiple channels.



## Payments Innovation

Our innovation capabilities and our technology provide resiliency, scalability and flexibility in how we serve customers and in turn help them benefit consumers. They enable broader reach to scale digital payment services across multiple channels, including mobile devices. Our technology standards, services and governance model help us to serve as the connection that allows financial institutions, fintechs and technology companies to interoperate and enable consumers, businesses, governments and merchants to engage through digital channels.

### Key 2022 Developments

- During 2022, we entered into pilot programs for our previously announced Mastercard Installments, an open loop solution to deliver buy-now-pay-later installments capabilities at scale. The solution connects lenders with merchants across our acceptance network to provide buy-now-pay-later options for consumers.
- Delivering better digital experiences everywhere.** We are using our technologies and security protocols to develop solutions to make digital shopping and selling experiences, such as on smartphones and other connected devices, simpler, faster and safer for both consumers and merchants. We also offer products that make it easier for merchants to accept payments and expand their customer base.
  - Our contactless payment solutions help deliver a simple and intuitive way to pay, as well as health and safety benefits when consumers are looking for low-touch options
  - Our Mastercard Digital First™ program enables customers to offer their cardholders a fully digital payment experience with an optional physical card, meeting cardholder expectations of immediacy, safety and convenience during card application, authentication and instant card access, securing purchases (whether contactless, in-store, in-app or via the web) and managing alerts, controls and benefits
  - Our Click to Pay checkout experience is designed to provide consumers the same convenience and security in a digital environment that they have when paying in a store, make it easier for merchants to implement secure digital payments and provide issuers with improved fraud detection and prevention capability. This experience is based on the EMV Secure Remote Commerce industry standard that enables a faster, more secure checkout experience across web and mobile sites, mobile apps and connected devices
- Securing more transactions.** We are leveraging tokenization, biometrics and machine learning technologies in our push to secure every transaction. These efforts include driving EMV-level security and benefits through all our payment channels.
- Creating solutions to support blockchain-based digital currencies.** Through a principled approach (including applying prudent risk management practices and maintaining continuous monitoring of our partners that are active in the digital asset market), Mastercard is focused on supporting digital currencies by:
  - Providing identity, cyber and consulting services for market participants (including our identity and biometric solutions, cybersecurity solutions, crypto analytics, transaction monitoring and anti-money laundering detection capabilities) as well as engaging with central banks as they design and develop central bank digital currencies
  - Helping consumers safely and easily purchase cryptocurrencies and non-fungible tokens (“NFTs”) as well as enabling consumers to spend their converted crypto holdings on Mastercard card offerings and cash out their crypto wallets using Mastercard Send
- Simplifying access to, and integration of, our digital assets.** Our Mastercard Developer platform makes it easy for customers and partners to leverage our many digital assets and services. By providing a single access point with tools and capabilities to find what we believe are some of the best-in-class APIs across a broad range of Mastercard services, we enable easy integration of our services into new and existing solutions.
- Identifying and experimenting with future technologies, start-ups and trends.** Through Mastercard Foundry, we continue to provide customers and partners access to thought leadership, innovation methodologies, new technologies and relevant early-stage fintech players.

## Our Value-Added Services

Our services encompass a wide-ranging portfolio of value-added and differentiating capabilities that:

- instill trust in the ecosystem to allow parties to transact and operate with confidence
- provide actionable insights to our customers to assist in their decision making
- enable our customers to strengthen their engagement with their own end users
- enable connectivity and access for a fragmented and diverse set of parties



### Cyber and Intelligence Solutions

As part of the security we bring to the payments ecosystem, we offer integrated products and services to prevent, detect and respond to fraud and cyber-attacks and to ensure the safety of transactions made using Mastercard and non-Mastercard products. We do this using a multi-layered safety and security strategy:

- The **“Prevent”** layer is designed to protect against attacks on infrastructure, devices and data. We have continued to grow global usage of EMV chip and contactless security technology, helping to reduce fraud. Our solutions include Mastercard SafetyNet™, which protects financial institutions by helping to stop real-time attacks that are visible in the network, but not easily detected by financial institutions.
- The **“Identify”** layer allows us to help banks and merchants verify the authenticity of consumers during the payment process using various biometric technologies, including fingerprint, face and iris scanning, and behavioral user data assessment technology to verify online purchases on mobile devices, as well as a card with biometric technology built in.
- The **“Detect”** layer spots fraudulent behavior and cyber-attacks and takes action to stop these activities once detected. Our offerings in this space include alerts when accounts are exposed to data breaches or security incidents, fraud scoring technology that scans billions of dollars of money flows each day while increasing approvals and reducing false declines, and network-level monitoring on a global scale to help detect the occurrence of widespread fraud attacks when the customer (or their processor) may be unable to detect or defend against them.
- The **“Experience”** layer improves the security experience for our stakeholders in areas from the speed of transactions (enhancing approvals for online and card-on-file payments) to the ability to differentiate legitimate consumers from fraudulent ones. Our offerings in this space include solutions for consumer alerts and controls and a suite of digital token services. We also offer an e-commerce fraud and dispute management network that enables merchants to stop delivery when a fraudulent or disputed transaction is identified, and issuers to refund the cardholder to avoid the chargeback process.
- The **“Network”** layer extends the services we provide to transactions in the payments ecosystem and across all of our rails, including decision intelligence and tokenization capabilities, to help secure our customers and transactions on a real-time basis.

Moreover, we use our artificial intelligence (“AI”) and data analytics, along with our cyber risk assessment capabilities, to help financial institutions, merchants, corporations and governments secure their digital assets across each of these five layers.

We have also worked with our customers to provide products to consumers globally with increased confidence through the benefit of “zero liability”, where the consumer bears no responsibility for counterfeit or lost card losses in the event of fraud.

#### Key 2022 Developments

- In 2022, we significantly extended the reach of our Consumer Clarity services, enhancing the value of payments by providing cardholders with merchant details and digital receipts to reduce disputes, lower chargeback costs and improve the consumer experience.



## Data and Services Solutions



**Insights and Analytics.** Our capabilities incorporate payments expertise and analytical and executional skills to create end-to-end solutions which are increasingly delivered via platforms embedded in our customers' day-to-day operations. We offer business intelligence to monitor key performance indicators ("KPIs") and benchmark performance through self-service digital platforms, tools, and reports for financial institutions, merchants and others. We enable clients to better understand consumer behavior and improve segmentation and targeting by using our anonymized and aggregated data assets, third-party data and AI technologies. We also help our customers accurately measure the impact of their decisions and improve them by leveraging data analytics to conduct disciplined business experiments for in-market tests to drive more profitable decision making.

### Key 2022 Developments

- In 2022, we completed our acquisition of Dynamic Yield™, which uses enhanced AI to deliver customized product recommendations, offers and content to consumers. When combined with our loyalty and other offerings, this platform provides the opportunity to offer a unified consumer engagement and loyalty hub to our customers.



**Consulting and Innovation.** We provide advisory services that help clients make better decisions and improve performance. By observing patterns of payments behavior based on billions of transactions switched globally, we are able to leverage anonymized and aggregated information to provide advice based on data. We also utilize our expertise, digital technology, innovation tools, methodologies and processes to collaborate with, and increasingly drive innovation at, financial institutions, merchants and governments. Through our global innovation and development arm, Mastercard Foundry, we offer customized innovation programs and concept design. We continue to innovate and expand our offerings to help businesses evolve and expand their growth enterprise-wide. For example, we have developed consulting and innovation offerings dedicated to open banking, open data, crypto and digital currencies and ESG matters.



**Marketing Services.** We deliver marketing services, digital implementation and program management with performance-based solutions at every stage of the consumer lifecycle to assist our customers in implementing actions based on insights and driving adoption and usage. These services include developing messaging, targeting key groups, launching campaigns and training staff, all of which help our customers drive engagement and portfolio profitability.



**Issuer and Merchant Loyalty.** We have built a scalable rewards platform that enables issuers to provide consumers with a variety of benefits and services, such as personalized offers and rewards, access to a global airline lounge network, concierge services, insurance services, emergency card replacement, emergency cash advances and a 24-hour account holder service center. For merchants, we provide campaigns with targeted offers and rewards, management services for publishing offers, and accelerated points programs for co-brand and rewards program members. We also provide a loyalty platform that enables stronger relationships with retailers, restaurants, airlines and consumer packaged goods companies by creating experiences that drive loyalty and impactful consumer engagement.



## Processing and Gateway

We extend our processing capabilities in the payments value chain in various regions and across the globe with an expanded suite of offerings, including:

- Issuer solutions designed to provide customers with a complete processing solution to help them create differentiated products and services and allow quick deployment of payments portfolios across banking channels
- Payment gateways that offer a single interface to provide e-commerce merchants with the ability to process secure online and in-app payments and offer value-added solutions, including outsourced electronic payments, fraud prevention and alternative payment options
- Mobile gateways that facilitate transaction routing and processing for mobile-initiated transactions



## Our New Network Capabilities



### Open Banking

We offer an open banking platform that enables data providers and third parties, on a permissioned basis, to reliably access, securely transmit and confidently manage consumer data to improve the customer experience. Our platform enables consumers to have choice of financial services, providing them the ability to access, control and benefit from the use of their data, as well as an improved payment experience. Our platform is also used to serve the needs of the lending market, including through streamlining loan application processes and improving credit decisioning, thereby driving further financial inclusion. The network connections that underpin this platform leverage our data principles (including data usage guardrails, consumer protection and consent management), as well as API technology.

#### Key 2022 Developments

- In 2022, we partnered with a leading financial institution on an ACH payment solution (currently in the pilot phase) that uses our open banking capabilities to enable seamless and secure consumer bill payments.
- In 2022, we launched a suite of smart payment decisioning tools that add value to our enhanced ACH solution, helping our partners determine the optimal timing and payment rail for a successful payment transaction.



### Digital Identity

We enable digital identity solutions, which provide seamless digital experiences and strengthen and secure digital payments across individuals, devices and accounts. Our digital identity capabilities focus on the identity of people, devices and transactions. They embody privacy by design principles and are consent-centric. Our solutions include device intelligence and behavioral biometrics (to determine whether the user is genuine or a fraudulent device), document proofing, IP intelligence, biometrics, transaction fraud data (from which we derive insights that can be used to significantly improve the global approval rate of transactions), location, identity attributes and payment authorization.

## Our People

As of December 31, 2022, we employed approximately 29,900 persons globally. Our employee base is predominantly full-time and approximately 66% were employed outside of the United States in more than 80 countries around the world. We also had approximately 4,900 contractors which we used to supplement our employee base in order to meet specific needs. Our voluntary workforce turnover (rolling 12-month attrition) was approximately 11% as of December 31, 2022. The total cost of our workforce for the year ended December 31, 2022 was \$5.3 billion, which primarily consists of compensation, benefits and other personnel- and contractor-related costs.

Management reviews our people strategy and culture, as well as related risks, with our Human Resources and Compensation Committee on a quarterly basis, and annually with our Board of Directors. Additionally, our Board and Board committees are tasked with overseeing other human capital management matters on a regular basis, such as ensuring processes are in place for maintaining an ethical corporate culture, overseeing key diversity initiatives, policies and practices, and monitoring governance trends in areas such as human rights. Our ability to attract, retain and engage top talent and build a culture centered around decency, with an overall focus on diversity, equity and inclusion ("DEI"), is critical to our business strategy.

Specifically, to enable our business strategy effectively, our aim is to:

- attract talent with the key skills needed
- develop and retain an agile workforce that can compete in a fast-paced, digitally native and innovative environment
- build on our DEI efforts to support our employees' growth

#### Attract talent.

- We continuously recruit talent by leveraging the strength of our brand and utilizing a variety of sources, channels, and initiatives in order to support our growth across sectors, markets and emerging industries
- Our acquisition activity has also provided a strong source of talent with differentiated skills

**Develop and retain talent.** We develop and retain our employees, ensuring we stay competitive and respond to both changing market dynamics and our employees’ needs while supporting a culture of innovation grounded in decency. Our efforts include:

- An annual cycle that aligns with our “Mastercard Way” and focuses on objective setting, performance assessment, talent evaluation, skill development, opportunities and career progression
- Succession planning for key roles, including talent and leadership programs across various levels. These programs embed our culture principles, include diverse populations, aim to develop talent and managerial skills through personalized coaching and group executive development and leverage mentorship programs and other learning opportunities
- A competitive compensation approach (subject to periodic reviews) under which eligible employees across multiple job levels can receive long-term incentive equity awards
- Contributions to employees’ financial well-being as they plan for retirement. All employees globally are entitled to receive a matching Mastercard contribution of \$1.67 for every \$1 contributed to a 401(k) or other retirement plan on the first 6% of base pay
- Continued expansion and prioritization of well-being offerings for employees, including access to mental, physical and financial health resources, additional paid time off due to COVID-related illness and dependent care, and expanded benefits for family planning
- An evolved approach to flexible working, including the launch of a four-week “work from anywhere” policy, meeting-free days and team-based decision-making for how and where our employees work
- Support of employee charitable donations with matching Mastercard gifts of up to \$15,000 per employee annually, as well as providing full-time employees five paid days per year for eligible volunteer work
- Experience surveys that we periodically run to assess our overall employee engagement areas (with occasional focus on more targeted topics) and prioritize how we address emerging opportunity areas
- A culture of high ethical business practices and compliance standards, grounded in honesty, decency, trust and personal accountability. It is driven by “tone at the top,” reinforced with regular training, fostered in a speak-up environment, and measured by our periodic employee surveys and other metrics that enable our Board to maintain a pulse on areas of strength and opportunities for improvement

#### The Mastercard Way

The Mastercard Way is the statement of our culture: how we work and why we work that way. It consists of three principles that address where we are going as an organization, how we work together and how we deliver for our customers and each other.

- Create value
- Grow together
- Move fast

**Diversity, equity and inclusion** underpin everything we do:

- We monitor our recruitment, development, succession and retention practices with a focus on gender, race (in the U.S.) and generational mix of our employee population
- We have developed regional and functional action plans to identify priorities and actions that will help us make more progress for DEI, including appropriate balance and inclusion in gender and racial representation
- We remain committed to our “In Solidarity” initiative through alignment of our DEI plans globally to address local needs and opportunities, for example through the introduction of new training programs such as our neurodiversity hiring initiative and new partnerships with historically Black colleges and universities (HBCUs) in the U.S.
- We remain dedicated to practices designed to ensure there is equal pay for equal work. We have established a framework for examining pay practices annually, supported by third-party analysis and benchmarked to the external market. We assess compensation decisions for potential pay disparities by gender (including base, bonus and long-term incentives), among other categories, and appropriately respond to any disparities that are found

#### Workforce Demographics

- 39% of our global workforce are women
- 42% of our U.S. workforce are people of color <sup>1</sup>
- Female employees earned \$1.00 for every \$1.00 men earned during 2022
- In the U.S., employees of color earned \$1.00 for every \$1.00 white employees earned during 2022 <sup>1</sup>
- The median pay for female employees is 94.0% compared to male employees <sup>2</sup>

- Our employee incentive compensation plan features an ESG modifier that includes quantitative goals for a number of ESG items, including gender pay parity. In 2022, we expanded this modifier to all employees, underscoring our commitment to ESG

We expect to provide more detailed information in 2023 regarding our employees, including additional workforce demographics, in our annual Corporate Sustainability Report and Proxy Statement, both of which will be located on our website.

<sup>1</sup> People of Color are defined as Black or African American, Hispanic, Asian, American Indian, Alaska Native, Native Hawaiian/other Pacific Islander and two or more races. Ethnicity data does not include undeclared.

<sup>2</sup> Data as of September 30, 2022. The gender pay gap is predominantly due to the fact that we have more men in senior roles, not because men are paid more.

## Brand



Our family of well-known brands includes Mastercard, Maestro and Cirrus. We manage and promote our brands and brand identities through advertising, promotions and sponsorships, as well as digital, mobile and social media initiatives, in order to increase people's preference for our brands and usage of our products. We sponsor a variety of sporting, entertainment and charity-related marketing properties to align with consumer segments important to us and our customers. Our advertising plays an important role in building brand visibility, preference and overall usage among account holders globally. Our "Priceless®" advertising campaign, which celebrated its 25th anniversary in 2022 and has run in more than 50 languages and in more than 120 countries worldwide, promotes Mastercard usage benefits and acceptance, markets Mastercard payment products and solutions and provides Mastercard with a consistent, recognizable message that supports our brand around the globe.

## Data

We use our data assets, infrastructure and platforms to create a range of products and services for our customers, including the majority of our value-added services, which help reduce fraud, increase security, provide actionable insights to our customers to assist in their decision making and enable our customers to increase their engagement with consumers. We do all this while incorporating our data principles in how we design, implement and deliver those solutions. Our Privacy by Design and Data by Design processes have been developed to ensure we embed privacy, security and data controls in all of our products and services, keeping a clear focus on protecting customers' and individuals' data. We do this in a number of ways:

- **Practicing data minimization.** We collect and retain only the data that is needed for a given product or service, and limit the amount and type of personal information shared with third parties
- **Being transparent and providing control.** We explain how we use personal information and give individuals' access and control over how their data is used and shared
- **Working with trusted partners.** We select partners and service providers who share our principled-approach to protecting data
- **Addressing data bias.** We ensure our use of advanced analytics, including AI and Machine Learning, utilizes diverse data sets to create fair and inclusive solutions that reflect individual, group and societal interests
- **Advancing positive social impact.** We utilize our data sets to create innovative solutions to societal challenges, promoting inclusive financial, social, climate, health and education growth

## Technology

We leverage our technology to help enable payments, services and new networks, enhance our operational strength and enable our employees to deliver effectively for our customers. Our strategy to "lead through technology" includes the following key areas:

### Offering our products to customers around the world:

- Standardizing and simplifying how we connect with customers to provide them with the tools to manage and expand their Mastercard relationship
- Deploying our cloud-native technology infrastructure to adapt to evolving market conditions and further enhance speed, resiliency and scalability

#### Enabling our full range of products and services:

- Enhancing payment rails and expanding them across payments and services, including providing seamless customer adoption across new services and enhancing connectivity to new networks
- Further evolving our data infrastructure to unlock incremental value and ensure ongoing compliance with evolving data regulations

#### Empowering our employees:

- Improving the speed in which we deliver for our customers through a combination of tools and customer-centric practices
- Attracting, developing and retaining top technology talent, as well as strengthening our employees' technology acumen

## Revenue Sources

Mastercard is a payments network service provider that generates revenue from a wide range of payment solutions we provide to our customers. We classify our net revenues, which includes the impact of rebates and incentives, from contracts with customers into two categories: (i) payment network and (ii) value-added services and solutions.

Within our payment network, revenue is primarily generated from charging fees to our customers based on GDV (which includes both domestic and cross-border volume) on the cards that carry our brands and for providing switching and other network-related services.

Within our value-added services and solutions, we generate revenue primarily related to the following:

- Cyber and intelligence solutions
- Data and services solutions
- ACH batch and real-time account-based domestic and cross-border payments and solutions
- Processing and gateway
- Open banking solutions
- Digital identity solutions

See "Management's Discussion and Analysis of Financial Condition and Results of Operations - Revenue" in Part II, Item 7 and Note 3, Revenue for more detail about our revenue.

## Intellectual Property

We own a number of valuable trademarks that are essential to our business, including Mastercard, Maestro and Cirrus, through one or more affiliates. We also own numerous other trademarks covering various brands, programs and services offered by us to support our payment programs. Trademark and service mark registrations are generally valid indefinitely as long as they are used and/or properly maintained. Through license agreements with our customers, we authorize the use of our trademarks on a royalty-free basis in connection with our customers' issuing and merchant acquiring businesses. In addition, we own a number of patents and patent applications relating to payment solutions, transaction processing, smart cards, contactless, mobile, biometrics, AI, security systems, blockchain and other technologies, which are important to our business operations. These patents expire at varying times depending on the jurisdiction and filing date.











## Competition

We face a number of competitors both within and outside of the global payments industry. We compete in all categories of payment (including paper-based payments and all forms of electronic payments) as well as in all categories in which we provide value-added services and solutions:

- **General Purpose Payments Networks.** We compete worldwide with payments networks such as Visa, American Express, JCB, China UnionPay and Discover, among others. These competitors tend to offer a range of card-based payment products. Some competitors have more market share than we do in certain jurisdictions. Some also have different business models that may provide an advantage in pricing, regulatory compliance burdens or otherwise. Globally, financial institutions may issue both Mastercard and Visa-branded payment products, and we compete with Visa for business on the basis of individual portfolios or programs. In addition, a number of our customers issue American Express, China UnionPay and/or Discover-branded payment cards in a manner consistent with a four-party system. We continue to face intense competitive pressure on the prices we charge our issuers and acquirers, and we seek to enter into business agreements with them through which we offer incentives and other support to issue and promote our payment products.

- **Debit and Local Networks.** We compete with ATM and point of sale debit networks in various countries. In addition, in many countries outside of the United States, local debit brands serve as the main domestic brands, while our brands are used mostly to enable cross-border transactions (typically representing a small portion of overall transaction volume). Certain jurisdictions have also created domestic card schemes focused mostly on debit. In addition, several governments are promoting, or considering promoting, local networks for domestic switching. See “Risk Factors” in Part I, Item 1A for a more detailed discussion of the risks related to payments system regulation and government actions that may prevent us from competing effectively.
- **Real-time Account-based Payments Systems.** We face competition in the ACH and real-time account-based payments space from other companies (such as ACI Worldwide, FIS and Volante Technologies) that provide infrastructure, applications and services to support these payment solutions. As these real-time account-based propositions mature, we face a possible increase in competition for our existing domestic person-to-merchant (“P2M”) and person-to-person (“P2P”) transaction market share. Similarly, as interlinking of these infrastructures is further explored, they could disrupt our existing cross-border P2M and P2P market share. Also, several industry initiatives are experimenting with the concept of account-based global schemes, which could lead to a disruption of the clearing and settlement options utilized in various currencies.
- **Alternative Payments Systems and New Entrants.** As the global payments industry becomes more complex, we face increasing competition from alternative payments systems and emerging payments providers, both for customers and data. Many of these providers, who in many circumstances can also be our partners or customers, have developed payments systems focused on online activity in e-commerce and mobile channels (in some cases, expanding to other channels), and may process payments using in-house account transfers, real-time account-based payments networks or global or local networks. Examples include digital wallet providers (such as Paytm, PayPal, Alipay and Amazon), point of sale financing/buy-now-pay-later providers (such as Klarna, Affirm and Afterpay), mobile operator services, mobile phone-based money transfer and microfinancing services (such as M-PESA) and handset manufacturers.
- **Government-Backed Networks.** Governments have been increasingly creating local payments structures (such as the Brazilian Instant Payment System-PIX, FedNow in the U.S., the European Payments Initiative, Nigerian NIBSS Card and the South African Instant Payment System-Payshap), which are increasingly being considered as alternatives to traditional domestic payment solutions and schemes such as ours. In addition to local and regional networks, more than 80 national governments are exploring the use of central bank digital currencies (“CBDCs”).
- **Digital Currencies.** Stablecoins and floating cryptocurrencies may become more popular as they become more regulated and increasingly viewed as providing immediacy, 24/7 accessibility, immutability and efficiency. Such currencies have started to be accepted by P2M players (such as Square), while some banks have started experimenting with blockchain B2B payments (such as J.P. Morgan). These currencies have also introduced into the payments ecosystem an emerging set of providers referred to as crypto natives, who have the ability to disrupt traditional financial markets. The increased prominence of digital currencies creates an opportunity for us but could equally compete with our products and services.
- **Value-Added Service Providers and New Network Capabilities Players.** We face competition from companies that provide alternatives to our value-added services and solutions. These companies include information services and consulting firms that provide consulting services and insights to financial institutions, merchants and governments, technology companies that provide cyber and fraud solutions, and companies that compete against us as providers of loyalty and program management solutions. We also face competition from companies that provide alternatives to our open banking and digital identity solutions. Regulatory initiatives could also lead to increased competition in this space.

We play a valuable role as a trusted intermediary in a complex system, creating value for individual stakeholders and the payments ecosystem overall. Our competitive advantages include:

	<b>Global network</b>	Highly adaptable and world class global payments network built over more than 50 years that can reach a variety of parties to enable payments anywhere
	<b>Franchise model</b>	Establishing rules, standards and bearing of financial risk (including our settlement guarantee backed by our strong credit standing)
	<b>Multi-rail</b>	Multiple payment and new network capabilities based on our innovation and technology that enable choice
	<b>Brand</b>	Globally recognized and trusted brands
	<b>Security</b>	Enable all parties in the payments ecosystem to transact securely and with confidence through safety and security solutions offered on our network (including fraud prevention and authentication)
	<b>Services</b>	Value-added services for all parties including analytics insights, consulting and marketing services and loyalty solutions
	<b>Talent and culture</b>	World class talent and culture, with a focus on diversity, equity and inclusion and “doing well by doing good”
	<b>Data</b>	Products and services leveraging our data assets, infrastructure and platforms that incorporate our data principles and reflect our Privacy by Design and Data by Design processes
	<b>Technology</b>	Leading-edge technology that advances the quality, speed and diversity of our offerings and solutions
	<b>Government engagement</b>	Ability to serve a broad array of participants in global payments due to our expanded on-soil presence in individual markets and a heightened focus on working with governments

Collectively, the capabilities that we have created organically, and those that we have obtained through acquisitions, support and build upon each other to enhance the total proposition we offer our customers. They enable us to partner with many participants in the broader payments ecosystem and provide choice, security and services to improve the value we provide to our customers.

## Government Regulation

As a technology company operating in the global payments industry, we are subject to government regulation that impacts key aspects of our business. In particular, we are subject to regulations that affect the payments industry in the many countries in which our integrated products and services are used. We are committed to complying with all applicable laws and regulations and implementing policies, procedures and programs designed to promote compliance. We monitor and coordinate globally while acting locally and establish relationships to assess and manage the effects of regulation on us. See “Risk Factors” in Part I, Item 1A for more detail and examples of the regulation to which we are subject.

**Payments Oversight and Regulation.** Central banks and other regulators in several jurisdictions around the world either have, or are seeking to establish, formal oversight over the payments industry, as well as authority to regulate certain aspects of the payments systems in their countries. Such authority has resulted in regulation of various aspects of our business. In the European Union, Mastercard is subject to systemic importance regulation, which includes various requirements we must meet, including obligations related to governance and risk management. In the U.K., the Bank of England designated Vocalink™, our real-time account-based payments network platform, as a “specified service provider”, and Mastercard Europe as a “recognized payment system”, which includes supervisions and examination requirements. In addition, European Union legislation requires us to separate our scheme activities (brand, products, franchise and licensing) from our switching activities and other processing in terms of how we go to market, make decisions and organize our structure. Examples of other markets where Mastercard is formally overseen include Australia, Brazil, India, Mexico and South Africa. Additionally, certain of our subsidiaries are also regulated as payments institutions, including as money transmitters. This regulation subjects us to licensing obligations and regulatory supervision, as well as various business conduct and risk management requirements.

**Interchange Fees.** Interchange fees that support the function and value of four-party payments systems like ours are being reviewed or challenged in various jurisdictions around the world via legislation to regulate interchange fees, competition-related regulatory proceedings, central bank regulation and litigation. Examples include statutes in the United States that cap debit interchange for certain regulated activities, proposed legislation in the United States to extend routing mandates to credit, our settlement with the European Commission resolving its investigation into our interregional interchange fees and the European Union legislation capping consumer credit and debit interchange fees on payments issued and acquired within the European Economic Area (the “EEA”). For more detail, see “Risk Factors - Other Regulation” in Part I, Item 1A and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

**Preferential or Protective Government Actions.** Some governments have taken action to provide resources, preferential treatment or other protection to selected domestic payments and processing providers, as well as to create their own national providers. For example, governments in some countries mandate switching of domestic payments either entirely in that country or by only domestic companies. In China, we are currently excluded from domestic switching and are seeking market access, which is uncertain and subject to a number of factors, including receiving regulatory approval. We are in active discussions to explore different solutions. Some jurisdictions are currently considering adopting or have adopted “data localization” requirements, which mandate the collection, processing, and/or storage of data within their borders. This is the case, for instance, in India, China and Saudi Arabia.

### Key 2022 Developments

- In 2022, the U.K. Payment Systems Regulator (“PSR”) opened a market review of network constraints in setting network fees and European Union/U.K. cross-border interchange to determine whether the market is functioning in terms of competition, innovation and promoting the interests of end users. The market review will be a multi-year effort during which the PSR may make recommendations for potential changes.
- The U.S. Federal Reserve announced that, effective July 1, 2023, the requirement for issuing customers to enable two unaffiliated networks for routing debit card-present transactions will be extended to debit card-not-present transactions.
- In May 2022, legislation was introduced in the U.S. Senate (but not voted on prior to the end of the previous Congress) that would have extended routing mandates for Mastercard and Visa to credit. The bill stipulated that the top two networks could not be enabled on the same card, leaving room for regional networks to serve as second options. The bill would also have mandated Mastercard provide authentication, tokenization or other security technology to competing networks, whether or not the transaction is switched by Mastercard.
- In December 2022, the U.S. Federal Trade Commission’s Bureau of Competition voted to issue an administrative complaint and accept a consent agreement with Mastercard related to our compliance with the debit routing provisions of the Durbin Amendment. Pursuant to this agreement, we agreed to provide primary account numbers (PANs) so merchants can route tokenized online debit transactions to alternative networks.

Various forms of data localization requirements or data transfer restrictions are also under consideration in other countries and jurisdictions, including the European Union.

**Anti-Money Laundering, Counter Financing of Terrorism, Economic Sanctions and Anti-Corruption.** We are subject to anti-money laundering (“AML”) and counter-financing of terrorism (“CFT”) laws and regulations globally, including the U.S. Bank Secrecy Act and the USA PATRIOT Act, as well as the various economic sanctions programs, including those imposed and administered by the U.S. Office of Foreign Assets Control (“OFAC”). We have implemented a comprehensive AML/CFT program, comprised of policies, procedures and internal controls, including the designation of a compliance officer, which is designed to prevent our payments network from being used to facilitate money laundering and other illicit activity and to address these legal and regulatory requirements and assist in managing money laundering and terrorist financing risks. The economic sanctions programs administered by OFAC restrict financial transactions and other dealings with certain countries and geographies (specifically Crimea, the Donetsk People’s Republic and Luhansk People’s Republic regions of Ukraine, Cuba, Iran, North Korea and Syria) and with persons and entities included in OFAC sanctions lists including its list of Specially Designated Nationals and Blocked Persons (the “SDN List”). We take measures to prevent transactions that do not comply with OFAC and other applicable sanctions, including establishing a risk-based compliance program that has policies, procedures and controls designed to prevent us from having unlawful business dealings with prohibited countries, regions, individuals or entities. As part of this program, we obligate issuers and acquirers to comply with their local sanctions obligations and the U.S. sanctions programs, including requiring the screening of account holders and merchants, respectively, against OFAC sanctions lists (including the SDN List). Iran and Syria have been identified by the U.S. State Department as terrorist-sponsoring states, and we have no offices, subsidiaries or affiliated entities located in these countries and do not license entities domiciled there. We are also subject to anti-corruption laws and regulations globally, including the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act, which, among other things, generally prohibit giving or offering payments or anything of value for the purpose of improperly influencing a business decision or to gain an unfair business advantage. We have implemented policies, procedures and internal controls to proactively manage corruption risk.

**Financial Sector Oversight.** We are or may be subject to regulations related to our role in the financial industry and our relationship with our financial institution customers. In addition, we are or may be subject to regulation by a number of agencies charged with oversight of, among other things, consumer protection, cybersecurity, financial and banking matters. The regulators have supervisory and independent examination authority as well as enforcement authority that we may be subject to because of the services we provide to financial institutions that issue and acquire our products.

**Issuer and Acquirer Practices Legislation and Regulation.** Our issuers and acquirers are subject to numerous regulations and investigations applicable to banks, financial institutions and other licensed entities, impacting us as a consequence. Additionally, regulations such as the revised Payment Services Directive (commonly referred to as “PSD2”) in the EEA require financial institutions to provide third-party payment processors access to consumer payment accounts, enabling them to route transactions away from Mastercard products and provide payment initiation and account information services directly to consumers who use our products. PSD2 also requires a new standard for authentication of transactions, which necessitates additional verification information from consumers to complete transactions. This may increase the number of transactions that consumers abandon if we are unable to ensure a frictionless authentication experience under the new standards.

**Regulation of Internet, Digital Transactions and High-Risk Merchant Categories.** Various jurisdictions have enacted or have proposed regulation related to internet transactions. The legislation applies to payments system participants, including us and our customers, and is implemented through a federal regulation. We may also be impacted by evolving laws surrounding gambling, including fantasy sports, as well as certain legally permissible but high-risk merchant categories, such as adult content, firearms, alcohol and tobacco.

**Privacy, Data and Information Security.** Aspects of our operations or business are subject to increasingly complex privacy and data protection laws in the United States, the European Union and elsewhere around the world. For example, in the United States, we and our customers are respectively subject to Federal Trade Commission and federal banking agency information safeguarding requirements under the Gramm-Leach-Bliley Act that require the maintenance of a written, comprehensive information security program. In the European Union, we are subject to the General Data Protection Regulation (the “GDPR”), which requires a comprehensive privacy and data protection program to protect the personal and sensitive data of EEA residents. A number of regulators and policymakers around the globe are using the GDPR as a reference to adopt new or updated privacy and data protection laws. Due to increasing data collection and data flows, numerous data breaches and security incidents as well as the use of emerging technologies such as artificial intelligence, regulations in this area are constantly evolving with regulatory and legislative authorities in numerous parts of the world adopting proposals to regulate data and protect information. In addition, the interpretation and application of these privacy and data protection laws are often uncertain and in a state of flux, thus requiring constant monitoring for compliance.



**ESG.** Various jurisdictions have adopted or are increasingly considering adopting laws and regulations impacting our reporting on ESG governance, strategy, risk management and metrics and targets. Regulations already adopted or being considered include required corporate reporting and disclosures on specific topics as well as broader ESG matters. Specific topics include climate (such as the U.K. Streamlined Energy and Carbon Reporting, the European Union Corporate Sustainability Reporting Directive, or “EU CSRD”, and the SEC proposed rules related to climate change) and human rights (such as the European Union Corporate Sustainability Due Diligence Directive). Broader ESG matters include other environmental matters, treatment of employees and diversity of workforce (such as the EU CSRD).

**Additional Regulatory Developments.** Various regulatory agencies also continue to examine a wide variety of issues that could impact us, including evolving laws surrounding buy-now-pay-later, digital currencies, marijuana, prepaid payroll cards, identity theft, account management guidelines, disclosure rules, security and marketing that would impact our customers directly.

## Additional Information

Mastercard Incorporated was incorporated as a Delaware corporation in May 2001. We conduct our business principally through our principal operating subsidiary, Mastercard International Incorporated, a Delaware non-stock (or membership) corporation that was formed in November 1966. For more information about our capital structure, including our Class A common stock (our voting stock) and Class B common stock (our non-voting stock), see Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8.

## Website and SEC Reports

Our internet address is [www.mastercard.com](http://www.mastercard.com). From time to time, we may use our corporate website as a channel of distribution of material company information. Financial and other material information is routinely posted and accessible on the investor relations section of our corporate website. You can also visit “Investor Alerts” in the investor relations section to enroll your email address to automatically receive email alerts and other information about Mastercard.

Our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and amendments to those reports are available for review, without charge, on the investor relations section of our corporate website as soon as reasonably practicable after they are filed with, or furnished to, the U.S. Securities and Exchange Commission (the “SEC”). The information contained on our corporate website, including, but not limited to, our Corporate Sustainability Report, our Global Inclusion Report and our U.S. Consolidated EEO-1 Report, is not incorporated by reference into this Report. Our filings are also available electronically from the SEC at [www.sec.gov](http://www.sec.gov).

## Item 1A. Risk factors

### RISK HIGHLIGHTS

#### Legal and Regulatory

Payments Industry Regulation

Preferential or Protective Government Actions

Privacy, Data and Security

Other Regulation

Litigation

#### Business and Operations

Competition and Technology

Information Security and Operational Resilience

Stakeholder Relationships

Global Economic and Political Environment

Brand, Reputational Impact and ESG

Talent and Culture

Acquisitions

Settlement and Third-Party Obligations

#### Class A Common Stock and Governance Structure

## Legal and Regulatory

### Payments Industry Regulation

**Global regulatory and legislative activity directly related to the payments industry may have a material adverse impact on our overall business and results of operations.**

Jurisdictions increasingly have regulated or established and expanded authority over certain aspects of payments systems such as ours, or have sought to do so. These efforts established, and potentially further expand, obligations or restrictions with respect to the types of products and services that we may offer, the countries in which our integrated products and services may be used, the way we structure and operate our business and the types of consumers and merchants who can obtain or accept our products or services. New regulations and oversight could also relate to our clearing and settlement activities (including policies, procedures and requirements related to risk management, collateral, participant default, timely switching of financial transactions, and capital and financial resource). Several jurisdictions have also inquired about the network fees we charge to our customers (in some cases as part of broader market reviews of retail payments).

Several central banks or similar regulatory bodies around the world have also increased, or are seeking to increase, their formal oversight of the electronic payments industry. In several jurisdictions, we have been designated as a “systemically important payment system”, with other regulators considering similar designations. Parts of our business have also been deemed as a “specified service provider” and considered critical national infrastructure. These obligations, designations and restrictions result in heightened regulatory oversight and scrutiny. They may further expand and could conflict with each other as more jurisdictions impose oversight of payments systems. Moreover, these efforts may influence the approaches of other regulators around the world that are increasingly looking to replicate similar regulation of payments and other industries. Similarly, jurisdictions that regulate a particular product may extend their regulation to similar products (for example, debit regulations could lead to regulation of credit products or network fees). As a result, the risks to our business created by any one new law or regulation are magnified by the potential it has to be replicated in other jurisdictions or involve other products within any particular jurisdiction.

The expansion of our products and services as part of our multi-rail strategy have also created the need for us to obtain new types and increasing numbers of regulatory licenses, resulting in increased supervision and additional compliance burdens distinct from those imposed on our core payment network activities. For example, certain of our subsidiaries maintain money transfer licenses to support certain activities. These licenses typically impose supervisory and examination requirements, as well as capital, safeguarding, risk management and other business obligations.

Increased regulation and oversight of payments systems, as well as increased exposure to regulation resulting from changes to our products and services, have resulted and may continue to result in significant compliance and governance burdens or otherwise increase our costs. As a result, customers could be less willing to participate in our payments system and/or use our other products or services, reduce the benefits offered in connection with the use of our products (making our products less desirable to consumers), reduce the volume of domestic and cross-border transactions or other operational metrics, disintermediate us, impact our profitability and/or limit our ability to innovate or offer differentiated products and services, all of which could materially and adversely impact our financial performance. In addition, any regulation that is enacted related to the type and level of network fees we charge our customers could also materially and adversely impact our results of operations. Regulators could also require us to obtain prior approval for changes to our system rules, procedures or operations, or could require customization with regard to such changes, which could negatively impact us. Such changes could lead to new or different criteria for participation in and access to our payments system by financial institutions or other customers. Moreover, failure to comply with the laws and regulations to which we are subject could result in fines, sanctions, civil damages or other penalties, which could materially and adversely affect our overall business and results of operations, as well as have an impact on our brand and reputation.

**Increased regulatory, legislative and litigation activity with respect to interchange rates could have an adverse impact on our business.**

Interchange rates are a significant component of the costs that merchants pay in connection with the acceptance of products associated with our core payment network. Although we do not earn revenues from interchange, interchange rates can impact the volume of transactions we see on our payment products. If interchange rates are too high, merchants may stop accepting our products or route transactions away from our network. If interchange rates are too low, issuers may stop promoting our integrated products and services, eliminate or reduce loyalty rewards programs or other account holder benefits (e.g., free checking or low interest rates on balances), or charge fees to account holders (e.g., annual fees or late payment fees).

Governments and merchant groups in a number of countries have implemented or are seeking interchange rate reductions through legislation, competition law, central bank regulation and litigation. See “Business - Government Regulation” in Part I, Item 1 and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for more details.

If issuers cannot collect or we are required to reduce interchange rates, issuers may be less willing to participate in our four-party payments system, or may reduce the benefits offered in connection with the use of our products, reducing the attractiveness of our products to consumers. These and other impacts could lower transaction volumes, and/or make proprietary three-party networks or other forms of payment more attractive. Issuers could reduce the benefits associated with our products or choose to charge higher fees to consumers to attempt to recoup a portion of the costs incurred for their services. In addition, issuers could seek a fee reduction from us to decrease the expense of their payment programs, particularly if regulation has a disproportionate impact on us as compared to our competitors in terms of the fees we can charge. This could make our products less desirable to consumers, reduce the volume of transactions and our profitability, and limit our ability to innovate or offer differentiated products.

We are devoting substantial resources to defending our right to establish interchange rates in regulatory proceedings, litigation and legislative activity. The potential outcome of any of these activities could have a more positive or negative impact on us relative to our competitors. If we are ultimately unsuccessful in defending our ability to establish interchange rates, any resulting legislation, regulation and/or litigation may have a material adverse impact on our overall business and results of operations. In addition, regulatory proceedings and litigation could result (and in some cases has resulted) in us being fined and/or having to pay civil damages, the amount of which could be material.

**Limitations on our ability to restrict merchant surcharging could materially and adversely impact our results of operations.**

We have historically implemented policies, referred to as no-surcharge rules, in certain jurisdictions, including the United States and Canada, that prohibit merchants from charging higher prices to consumers who pay using our products instead of other means. Authorities in several jurisdictions have acted to end or limit the application of these no-surcharge rules (or indicated interest in doing so). Additionally, we have modified our no-surcharge rules to permit U.S. and Canadian merchants to surcharge credit cards, subject to certain limitations. It is possible that over time merchants in some or all merchant categories in these jurisdictions may choose to surcharge as permitted by the rule change. This could result in consumers viewing our products less favorably and/or using alternative means of payment instead of electronic products, which could result in a decrease in our overall transaction volumes, and which in turn could materially and adversely impact our results of operations.

## Preferential or Protective Government Actions

**Preferential and protective government actions related to domestic payment services could adversely affect our ability to maintain or increase our revenues.**

Governments in some countries have acted, or in the future may act, to provide resources, preferential treatment or other protection to selected national payment and switching providers, or have created, or may in the future create, their own national provider. This action may displace us from, prevent us from entering into, or substantially restrict us from participating in, particular geographies, and may prevent us from competing effectively against those providers. For example:

- Governments in some countries have implemented, or may implement, regulatory requirements that mandate switching of domestic payments either entirely in that country or by only domestic companies.
- Some jurisdictions have implemented, or are considering, requirements to collect, process and/or store data within their borders, as well as prohibitions on the transfer of data abroad, leading to technological and operational implications as well as increased compliance burdens and other costs.
- Geopolitical events (such as Russia's invasion of Ukraine) and resulting OFAC sanctions, adverse trade policies, enforcement of U.S. laws related to counter financing of terrorism, economic sanctions and anti-corruption, or other types of government actions could lead affected or other jurisdictions to take actions in response that could adversely affect our business. Moreover, given our decision to suspend business operations in Russia, other separate jurisdictions may decide to increase their focus on growing local payment networks and other solutions.
- Regional groups of countries are considering, or may consider, efforts to restrict our participation in the switching of regional transactions.

Such developments prevent us from utilizing our global switching capabilities for domestic or regional customers. In addition, to the extent a jurisdiction determines us not to be in compliance with regulatory requirements (including those related to data localization), we have, and may continue to be, subject to resource and time pressures in order to come back into compliance. Our inability to effect change in, or work with, these jurisdictions could adversely affect our ability to maintain or increase our revenues and extend our global brand.

Additionally, some jurisdictions have implemented, or may implement, foreign ownership restrictions, which could potentially have the effect of forcing or inducing the transfer of our technology and proprietary information as a condition of access to their markets. Such restrictions could adversely impact our ability to compete in these markets.

## Privacy, Data and Security

### Regulation of privacy, data, security and the digital economy could increase our costs, as well as negatively impact our growth.

We are subject to increasingly complex regulations related to privacy, data and information security in the jurisdictions in which we do business. These regulations could result in negative impacts to our business. As we continue to develop integrated and personalized products and services to meet the needs of a changing marketplace (as well as acquire new companies), we have expanded our information profile through the collection of additional data from additional sources and across multiple channels. This expansion has amplified the impact of these regulations on our business. This regulation requires monitoring of and changes to our data practices in regard to the collection, use, disclosure, storage, transfer and/or protection of personal and sensitive information, as well as increased care in our data management, governance and quality practices. We are also subject to enhanced compliance and operational requirements in the European Union, and policymakers around the globe are or are considering adopting new or updated privacy laws that have resulted or could result in similar or stricter requirements in other jurisdictions. For example, some jurisdictions have implemented or are otherwise considering requirements to collect, process and/or store data within their borders, as well as prohibitions on the transfer of data abroad, leading to technological and operational implications. Other jurisdictions have adopted or are otherwise considering adopting sector-specific regulations for the payments industry, including forced data sharing requirements or additional verification requirements, as well as regulations on artificial intelligence and data governance, that overlap or conflict with, or diverge from, general privacy rules. Failure to comply with these laws, regulations and requirements could result in fines, sanctions or other penalties, which could materially and adversely affect our results of operations and overall business, as well as have an impact on our reputation.

New requirements or changing interpretations of existing requirements in these areas, or the development of new regulatory schemes related to the digital economy in general, may also increase our costs and/or restrict our ability to leverage data for innovation. This could impact the products and services we offer and other aspects of our business, such as fraud monitoring, the need for improved data management, governance and quality practices, the development of information-based products and solutions, and technology operations. In addition, these requirements may increase the costs to our customers of issuing payment products, which may, in turn, decrease the number of our payment products that they issue. Moreover, due to account data compromise events and privacy abuses by other companies, as well as the disclosure of monitoring activities by certain governmental agencies in combination with the use of artificial intelligence and new technologies, there has been heightened legislative and regulatory scrutiny around the world that could lead to further regulation and requirements and/or future enforcement. Those developments have also raised public attention on companies' data practices and have changed consumer and societal expectations for enhanced privacy and data protection. While we make every effort to comply with all regulatory requirements and we deploy a Privacy by Design and Data by Design approach to all of our product development, the speed and pace of changes in laws (as well as stakeholder interests) may not allow us to meet rapidly evolving regulatory and stakeholder expectations. Any of these developments could materially and adversely affect our overall business and results of operations.

In addition, fraudulent activity and increasing cyberattacks have encouraged legislative and regulatory intervention, and could damage our reputation and reduce the use and acceptance of our integrated products and services or increase our compliance costs. Criminals are using increasingly sophisticated methods to capture consumer personal information to engage in illegal activities such as counterfeiting or other fraud. As outsourcing and specialization become common in the payments industry, there are more third parties involved in processing transactions using our payment products. While we are taking measures to make card and digital payments more secure, increased fraud levels involving our integrated products and services, or misconduct or negligence by third parties switching or otherwise servicing our integrated products and services, could lead to legislative or regulatory intervention, such as enhanced security requirements and liabilities, as well as damage to our reputation.

## Other Regulation

### Regulations that directly or indirectly apply to Mastercard as a result of our participation in the global payments industry may materially and adversely affect our overall business and results of operations.

We are subject to regulations that affect the payments industry in the many jurisdictions in which our integrated products and services are used. Many of our customers are also subject to regulations applicable to banks and other financial institutions that, at times, consequently affect us. Such regulation has increased significantly in the last several years (as described in "Business - Government Regulation" in Part I, Item 1). Examples include:

- **Anti-Money Laundering, Counter Financing of Terrorism, Economic Sanctions and Anti-Corruption** - We are subject to AML and CFT laws and regulations globally. Economic sanctions programs administered by OFAC restrict financial transactions and other dealings with certain countries and geographies, and persons and entities. We are also subject to anti-corruption laws and regulations globally, which, among other things, generally prohibit giving or offering payments or anything of value for the purpose of improperly influencing a business decision or to gain an unfair business advantage.

- **Account-based Payments Systems** - In the U.K., aspects of our Vocalink business are subject to the U.K. payment system oversight regime and are directly overseen by the Bank of England.
- **Issuer and Acquirer Practices Legislation and Regulation** - Certain regulations (such as PSD2 in the EEA) may impact various aspects of our business. For example, PSD2's strong authentication requirement could increase the number of transactions that consumers abandon if we are unable to secure a frictionless authentication experience under these standards. An increase in the rate of abandoned transactions could adversely impact our volumes or other operational metrics.

Increased regulatory focus on us has resulted and may continue to result in significant compliance and governance burdens or otherwise increase our costs. Similarly, increased regulatory focus on our customers may cause such customers to reduce the volume of transactions processed through our systems, or may otherwise impact the competitiveness of our products. Actions by regulators could influence other organizations around the world to enact or consider adopting similar measures, amplifying any potential compliance burden. Additionally, our compliance with new economic sanctions and related laws with respect to particular jurisdictions or customers could result in a loss of business, which could be significant. Moreover, while our risk-based compliance program obligates issuers and acquirers to comply with their local sanctions programs (among other obligations), the failure of those issuers and acquirers to identify potential non-compliance issues either during or after their customer onboarding processes could ultimately impact our compliance with economic sanctions and related laws. Finally, failure to comply with the laws and regulations discussed above to which we are subject could result in fines, sanctions or other penalties. In particular, a violation and subsequent judgment or settlement against us, or those with whom we may be associated, under economic sanctions and AML, CFT, and anti-corruption laws could subject us to substantial monetary penalties, damages, and/or have a significant reputational impact. Each instance may individually or collectively materially and adversely affect our financial performance and/or our overall business and results of operations, as well as have an impact on our reputation.

**We could be subject to adverse changes in tax laws, regulations and interpretations or challenges to our tax positions.**

We are subject to tax laws and regulations of the U.S. federal, state and local governments as well as various non-U.S. jurisdictions. Current and potential future changes in existing tax laws, including regulatory guidance, are continuously being considered and have been or may be enacted (such as new guidelines issued by the Organization for Economic Cooperation and Development (OECD) which could impact how multinational enterprises are taxed on their global profits). These changes have or may in the future impact our effective income tax rate and tax payments. Similarly, changes in tax laws and regulations that impact our customers and counterparties, or the economy generally, have and can continue to impact us as well.

In addition, tax laws and regulations are complex and subject to varying interpretations, and any significant failure to comply with applicable tax laws and regulations in all relevant jurisdictions could give rise to substantial penalties and liabilities. Jurisdictions around the globe have also increased tax-related audits, which require time and resources to resolve.

Any changes in enacted tax laws, rules or regulatory or judicial interpretations or guidance; any adverse outcome in connection with tax audits in any jurisdiction; or any changes in the pronouncements relating to accounting for income taxes could materially and adversely impact our effective income tax rate, tax payments, financial condition and results of operations.

## Litigation

**Liabilities we may incur or limitations on our business related to any litigation or litigation settlements could materially and adversely affect our results of operations.**

We are a defendant in a number of civil litigations and regulatory proceedings and investigations, including among others, those alleging violations of competition and antitrust law and those involving intellectual property claims (as described in Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8). In the event we are found liable in any material litigations or proceedings (particularly in a large class-action lawsuit or on the basis of an antitrust claim entitling the plaintiff to treble damages or under which we were jointly and severally liable), we could be subject to significant damages, which could have a material adverse impact on our overall business and results of operations.

Certain limitations have been placed on our business in recent years because of litigation and litigation settlements, such as changes to our no-surcharge rule in the United States and Canada. Any future limitations on our business resulting from the outcomes of any litigation or regulatory proceeding, including any changes to our rules or business practices, could impact our relationships with our customers, including reducing the volume of business that we do with them, which may materially and adversely affect our overall business and results of operations.

## Business and Operations

### Competition and Technology

**Substantial and intense competition worldwide in the global payments industry may materially and adversely affect our overall business and results of operations.**

The global payments industry is highly competitive. Our payment programs compete against competitors both within and outside of the global payments industry and compete in all payment categories, including paper-based payments and all forms of electronic payments. We compete against general purpose payments networks, debit and local networks, ACH and real-time account-based payments systems, alternative payments systems and new entrants (focused on online activity across various channels and processing payments using in-house capabilities), government-backed networks and digital currencies. We also face competition from companies that provide alternatives to our value-added services and new adjacent network capabilities (including open banking and digital identity).

Our traditional competitors may have substantially greater financial and other resources than we have, may offer a wider range of programs, services, and payment capabilities than we offer or may use more effective advertising and marketing strategies to achieve broader brand recognition and merchant acceptance than we have. They may also introduce their own innovative programs, value-added services and capabilities that adversely impact our growth.

Certain of our competitors to our core payment network operate three-party payments systems with direct connections to both merchants and consumers and these competitors may derive competitive advantages from their business models. If we continue to attract more regulatory scrutiny than these competitors because we operate a four-party system, or we are regulated because of the system we operate in a way in which our competitors are not, we could lose business to these competitors. See “Business - Competition” in Part I, Item 1.

New entrants against whom we compete have developed alternative payments systems, e-commerce payments systems and payments systems for mobile devices, as well as physical store locations. A number of these new entrants rely principally on technology to support their services that provides cost advantages, and as a result may enjoy lower costs than we do, which could put us at a competitive disadvantage.

Our ability to compete may also be affected by regulatory and legislative initiatives, as well as the outcomes of litigation, competition-related regulatory proceedings and central bank activity and legislative activity. Moreover, the suspension of our business operations in Russia may provide the opportunity for competitors to grow their business and increase their market share and relative competitive position in other jurisdictions.

If we are not able to differentiate ourselves from our competitors, drive value for our customers and/or effectively align our resources with our goals and objectives, we may not be able to compete effectively against these threats. Our failure to compete effectively against any of the foregoing competitive threats could materially and adversely affect our overall business and results of operations.

**Disintermediation from stakeholders both within and outside of the payments value chain could harm our business.**

As the payments industry continues to develop and change, we face disintermediation and related risks, including:

- Parties that process our transactions in certain countries may try to eliminate our position as an intermediary in the payment process. For example, merchants could switch (and in some cases are switching) transactions directly with issuers. Additionally, processors could process transactions directly between issuers and acquirers. Large scale consolidation within processors could result in these processors developing bilateral agreements or in some cases switching the entire transaction on their own network, thereby disintermediating us.
- Industry participants continue to invest in and develop alternative capabilities, such as account-to-account payments, which could facilitate P2M transactions that compete with both our core payments network and our additional payment capabilities.
- Regulation (such as PSD2 in the EEA) may disintermediate issuers by enabling third-party providers opportunities to route payment transactions away from our network and products and towards other forms of payment by offering account information or payment initiation services directly to those who currently use our products. Such regulation may also provide these processors with the opportunity to commoditize the data that are included in the transactions they are servicing. If our customers are disintermediated in their business, we could face diminished demand for our integrated products and services.
- Although we partner with fintechs and technology companies (such as digital players and mobile providers) that leverage our technology, platforms and networks to deliver their products, they could develop platforms or networks that disintermediate us from digital payments and impact our ability to compete in the digital economy. These companies may also develop products or

services that compete with our customers within the payments ecosystem and, as a result, could diminish demand for our products and services. When we do partner with fintechs and technology companies, we face a heightened risk when we share data as part of those relationships. While we share this data in a controlled manner subject to applicable anonymization and privacy and data standards, sharing this data without proper oversight could provide partners with a competitive advantage.

- Competitors, customers, fintechs, technology companies, governments and other industry participants may develop products that compete with or replace value-added products and services we currently provide to support our switched transaction and payments offerings. These products could either replace, or force us to change our pricing or practices, for these offerings. In addition, governments that develop or encourage the creation of national or international payments platforms may promote their platforms in such a way that could put us at a competitive disadvantage in those markets, or require us to compete differently.
- Participants in the payments industry may merge, create joint ventures or form other business combinations that may strengthen their existing business services or create new payment products and services that compete with our products and services.

Our failure to compete effectively against any of the foregoing competitive threats could materially and adversely affect our overall business and results of operations.

**Continued intense pricing pressure may materially and adversely affect our overall business and results of operations.**

In order to increase transaction volumes, enter new markets and expand our products and services, we seek to enter into business agreements with customers through which we offer incentives, pricing discounts and other support that promote our products. In order to stay competitive, we may have to increase the amount of these incentives and pricing discounts. We continue to experience pricing pressure. The demand from our customers for better pricing arrangements and greater rebates and incentives moderates our growth. We may not be able to continue our expansion strategy to switch additional transaction volumes or to provide additional services to our customers at levels sufficient to compensate for such lower fees or increased costs in the future, which could materially and adversely affect our overall business and results of operations. In addition, increased pressure on prices increases the importance of cost containment and productivity initiatives in areas other than those relating to customer incentives.

In the future, we may not be able to enter into agreements with our customers if they require terms that we are unable or unwilling to offer, and we may be required to modify existing agreements in order to maintain relationships and to compete with others in the industry. Some of our competitors are larger with greater financial resources and accordingly may be able to charge lower prices to our customers. In addition, to the extent that we offer discounts or incentives under such agreements, we will need to further increase transaction volumes or the amount of services provided thereunder in order to benefit incrementally from such agreements and to increase revenue and profit, and we may not be successful in doing so, particularly in the current regulatory environment. Our customers also may implement cost reduction initiatives that reduce or eliminate payment product marketing or increase requests for greater incentives or greater cost stability. These factors could have a material adverse impact on our overall business and results of operations.

Additionally, we face pricing pressure related to real-time account-based payment schemes and cross-border payments. These pressures include the increased use of domestic real-time account-based payment schemes offering increasingly lower or subsidized pricing for P2M transactions as well as continued downward pressure on pricing for cross-border payments resulting from competition from real-time account-based payment schemes and from initiatives to lower the cost of cross-border payments to end users (such as the G20 Roadmap for Enhancing Cross-border Payments). These factors could have a material adverse impact on our overall business and results of operations.

**Rapid and significant technological developments and changes could negatively impact our overall business and results of operations or limit our future growth.**

The payments industry is subject to rapid and significant technological changes, which can impact our business in several ways:

- Technological changes, including continuing developments of technologies in the areas of smart cards and devices, contactless and mobile payments, e-commerce, cryptocurrency and blockchain technology, machine learning and AI, could result in new technologies that may be superior to, or render obsolete, the technologies we currently use in our programs and services. Moreover, these changes could result in new and innovative payment methods and products that could place us at a competitive disadvantage and that could reduce the use of our products.
- We rely in part on third parties (including some of our competitors and potential competitors) for the development of and access to new technologies. The inability of these companies to keep pace with technological developments, or the acquisition of these companies by competitors, could negatively impact our offerings.

- Our ability to develop and adopt new services and technologies may be inhibited by industry-wide solutions and standards (such as those related to EMV, tokenization or other safety and security technologies), and by resistance from customers or merchants to such changes.
- Our ability to develop evolving systems and products may be inhibited by any difficulty we may experience in attracting and retaining employees with technology expertise.
- Our ability to adopt these technologies can also be inhibited by intellectual property rights of third parties. We have received, and we may in the future receive, notices or inquiries from patent holders (for example, other operating companies or non-practicing entities) suggesting that we may be infringing certain patents or that we need to license the use of their patents to avoid infringement. Such notices may, among other things, threaten litigation against us or our customers or demand significant license fees.
- Our ability to develop new technologies and reflect technological changes in our payments offerings requires resources, which has resulted in and may further result in additional expenses.
- We work with fintechs, technology companies (such as digital players and mobile providers) and traditional customers that use our technology to enhance payment safety and security and to deliver their payment-related products and services quickly and efficiently to consumers. Our inability to keep pace technologically could negatively impact the willingness of these customers to work with us, and could encourage them to use their own technology and compete against us.
- Regulatory or government requirements have and could continue to require us to host and deliver certain products and services on-soil in certain markets, requiring us to alter our technology and delivery model, potentially resulting in additional expenses.
- Various central banks are experimenting with digital currencies called Central Bank Digital Currencies (CBDCs). CBDCs may be launched with their own networks to transfer money between participants. Policy and design considerations that governments adopt could impact the extent of our role in facilitating CBDC-based payment transactions, potentially impacting the transactions that we may process over our network.

We cannot predict the effect of future technological changes on our business, and our future success will depend, in part, on our ability to anticipate, develop or adapt to technological changes and evolving industry standards. Failure to keep pace with these technological developments or otherwise bring to market products that reflect these technologies could lead to a decline in the use of our products, which could have a material adverse impact on our overall business and results of operations.

**Operating a real-time account-based payments network presents risks that could materially affect our business.**

U.K. regulators have designated Vocalink, our real-time account-based payments network platform, to be a “specified service provider” and regulators in other countries may in the future expand their regulatory oversight of real-time account-based payments systems in similar ways. In addition, any prolonged service outage on this network could result in quickly escalating impacts, including potential intervention by the Bank of England and significant reputational risk to Vocalink and us. For a discussion of the regulatory risks related to our real-time account-based payments platform and oversight by regulators, see our risk factor in “Risk Factors - Payments Industry Regulation” in this Part I, Item 1A. Furthermore, the complexity of this payment technology requires careful management to address security vulnerabilities that are different from those faced on our core payment network. Operational difficulties, such as the temporary unavailability of our services or products, or security breaches on our real-time account-based payments network could cause a loss of business for these products and services, result in potential liability for us and adversely affect our reputation.

**Working with new customers and end users as we expand our multi-rail solutions and integrated products and services can present operational and onboarding challenges, be costly and result in reputational damage if the new products or services do not perform as intended.**

The payments markets in which we compete are characterized by rapid technological change, new product introductions, evolving industry standards and changing customer and consumer needs. In order to remain competitive and meet the needs of the payments markets, we are continually involved in developing complex multi-rail solutions and diversifying our integrated products and services. These efforts carry the risks associated with any diversification initiative, including cost overruns, delays in delivery and performance problems. These projects also carry risks associated with working with different types of customers, for example organizations such as corporations that are not financial institutions and non-governmental organizations (“NGOs”), and end users other than those we have traditionally worked with. These differences may present new operational challenges in the development and implementation of our new products or services. These new customers are typically less regulated, and as a result, enhanced infrastructure and monitoring is required.



Our failure to effectively design and deliver these multi-rail solutions and integrated products and services could make our other offerings less desirable to these customers, or put us at a competitive disadvantage. In addition, if there is a delay in the implementation of our products or services (which could include compliance obligations, such as AML and CFT, and licensing requirements for our products and services that operate under regulatory licenses), if our products or services do not perform as anticipated, or we are unable to otherwise adequately anticipate risks related to new types of customers, we could face additional regulatory scrutiny, fines, sanctions or other penalties, which could materially and adversely affect our overall business and results of operations, as well as negatively impact our brand and reputation.

## Information Security and Operational Resilience

### **Information security incidents or account data compromise events could disrupt our business, damage our reputation, increase our costs and cause losses.**

Information security risks for payments and technology companies such as ours have significantly increased in recent years in part because of the proliferation of new technologies, the use of the Internet and telecommunications technologies to conduct financial transactions, and the increased sophistication and activities of organized crime, hackers, terrorists and other external parties. These threats may derive from fraud or malice on the part of our employees or third parties, or may result from human error or accidental technological failure. These threats include cyber-attacks such as computer viruses, malicious code (including ransomware), phishing attacks or information security breaches and could lead to the misappropriation of consumer account and other information and identity theft. These types of threats have risen significantly due to a significant portion of our workforce working in a remote or hybrid environment.

Our operations rely on the secure processing, transmission and storage of confidential, proprietary and other information and technology in our computer systems and networks, as well as the systems of our third-party providers. Our customers and other parties in the payments value chain, as well as account holders, rely on our digital technologies, computer systems, software and networks to conduct their operations. In addition, to access our integrated products and services, our customers and account holders increasingly use personal smartphones, tablet PCs and other mobile devices that may be beyond our control. We, like other financial technology organizations, routinely are subject to cyber-threats and our technologies, systems and networks, as well as the systems of our third-party providers, have been subject to attempted cyber-attacks. Because of our position in the payments value chain, we believe that we are likely to continue to be a target of such threats and attacks. In response to U.S. and European sanctions against Russia earlier this year, we saw increased information security threats from state sponsored actors. Other geopolitical events and resulting government activity could also lead to information security threats and attacks by affected or sympathizing jurisdictions or other actors, which could put our information and assets at risk, as well as result in network disruption.

To date, we have not experienced any material impact relating to cyber-attacks or other information security breaches. However, future attacks or breaches could lead to security breaches of the networks, systems (including third-party provider systems) or devices that our customers use to access our integrated products and services, which in turn could result in the unauthorized disclosure, release, gathering, monitoring, misuse, loss or destruction of confidential, proprietary and other information (including account data information) or data security compromises. Such attacks or breaches could also cause service interruptions, malfunctions or other failures in the physical infrastructure or operations systems that support our businesses and customers (such as the lack of availability of our value-added services), as well as the operations of our customers or other third parties. In addition, they could lead to damage to our reputation with our customers, other stakeholders and the broader payments ecosystem, additional costs to us (such as repairing systems, adding new personnel or protection technologies or compliance costs), regulatory penalties, financial losses to both us and our customers and partners and the loss of customers and business opportunities. These consequences could be further pronounced in jurisdictions in which we are deemed critical national infrastructure. If such attacks are not detected immediately, their effect could be compounded.

Despite various mitigation efforts that we undertake, there can be no assurance that we will be immune to these risks and not suffer material breaches and resulting losses in the future, or that our insurance coverage would be sufficient to cover all losses. Our risk and exposure to these matters remain heightened because of, among other things, the evolving nature of these threats, our prominent size and scale and our role in the global payments and technology industries, our plans to continue to implement our digital and mobile channel strategies and develop additional remote connectivity solutions to serve our customers and account holders when and how they want to be served, our global presence, our extensive use of third-party vendors and future joint venture and merger and acquisition opportunities. As a result, information security and the continued development and enhancement of our controls, processes and practices designed to protect our systems, computers, software, data and networks from attack, damage or unauthorized access remain a priority for us. As cyber-threats continue to evolve, we may be required to expend significant additional resources to continue to modify or enhance our protective measures or to investigate and remediate any information security vulnerabilities. Any of the risks described above could materially adversely affect our overall business and results of operations.

In addition to information security risks for our systems, we also routinely encounter account data compromise events involving merchants and third-party payment processors that process, store or transmit payment transaction data, which affect millions of Mastercard, Visa, Discover, American Express and other types of account holders. Further events of this type may subject us to reputational damage and/or lawsuits involving payment products carrying our brands. Damage to our reputation or that of our brands resulting from an account data breach of either our systems or the systems of our customers, merchants and other third parties could decrease the use and acceptance of our integrated products and services. Such events could also slow or reverse the trend toward electronic payments. In addition to reputational concerns, the cumulative impact of multiple account data compromise events could increase the impact of the fraud resulting from such events by, among other things, making it more difficult to identify consumers. Moreover, while most of the lawsuits resulting from account data breaches do not involve direct claims against us and while we have releases from many issuers and acquirers, we could still face damage claims, which, if upheld, could materially and adversely affect our results of operations. Such events could have a material adverse impact on our transaction volumes, results of operations and prospects for future growth, or increase our costs by leading to additional regulatory burdens being imposed on us.

**Service disruptions that cause us to be unable to process transactions or service our customers could reduce our operational resilience and materially affect our overall business and results of operations.**

Our transaction switching systems and other offerings have experienced in limited instances and may continue to experience interruptions as a result of technology malfunctions, fire, weather events, power outages, telecommunications disruptions, terrorism, workplace violence, accidents or other catastrophic events (including those related to climate change). Our visibility in the global payments industry may also put us at greater risk of attack by terrorists, activists, or hackers who intend to disrupt our facilities and/or systems. Additionally, we rely on third-party service providers for the timely transmission of information across our global data network. Inadequate infrastructure in lesser-developed markets could also result in service disruptions, which could impact our ability to do business in those markets. If one of our service providers fails to provide the communications capacity or services we require, as a result of natural disaster, operational disruptions, terrorism, hacking or any other reason, the failure could interrupt our services. Although we maintain an enterprise resiliency program to analyze risk, assess potential impacts, and develop effective response strategies, we cannot ensure that our business would be immune to these risks, because of the intrinsic importance of our switching systems to our business, any interruption or degradation could adversely affect the perception of the reliability of products carrying our brands and materially adversely affect our overall business and our results of operations.

## Stakeholder Relationships

**Losing a significant portion of business from one or more of our largest customers could lead to significant revenue decreases in the longer term, which could have a material adverse impact on our business and our results of operations.**

Many of our customer relationships are not exclusive. Our customers can reassess their future commitments to us subject to the terms of our contracts, and they separately may develop their own services that compete with ours. Our business agreements with these customers may not ultimately reduce the risk inherent in our business that customers may terminate their relationships with us in favor of relationships with our competitors, or for other reasons, or might not meet their contractual obligations to us.

In addition, a significant portion of our revenue is concentrated among our five largest customers. Loss of business from any of our large customers could have a material adverse impact on our overall business and results of operations.

**Exclusive/near exclusive relationships certain customers have with our competitors may have a material adverse impact on our business.**

While we have exclusive, or nearly-exclusive, relationships with certain of our customers to issue payment products, other customers have similar exclusive, or nearly-exclusive, relationships with our competitors. These relationships may make it difficult or cost-prohibitive for us to do significant amounts of business with these customers to increase our revenues. In addition, these customers may be more successful and may grow faster than the customers that primarily issue our payment products, which could put us at a competitive disadvantage. Furthermore, we earn substantial revenue from customers with nearly-exclusive relationships with our competitors. Such relationships could provide advantages to the customers to shift business from us to the competitors with which they are principally aligned. A significant loss of our existing revenue or transaction volumes from these customers could have a material adverse impact on our business.

**Consolidation amongst our customers could materially and adversely affect our overall business and results of operations.**

Our customers' industries have undergone substantial, accelerated consolidation in the past. These consolidations have included customers with a substantial Mastercard portfolio being acquired by institutions with a strong relationship with a competitor. If significant consolidation among customers were to continue, it could result in the substantial loss of business for us, which could have a material adverse impact on our business and prospects. In addition, one or more of our customers could seek to merge with, or acquire, one of our competitors, and any such transaction could also have a material adverse impact on our overall business. Consolidation could also produce a smaller number of large customers, which could increase their bargaining power and lead to lower prices and/or more favorable terms for our customers. These developments could materially and adversely affect our results of operations.

**Our business significantly depends on the continued success and competitiveness of our issuing and acquiring customers and, in many jurisdictions, their ability to effectively manage or help manage our brands.**

While we work directly with many stakeholders in the payments system, including merchants, governments, fintechs and large digital companies and other technology companies, we are, and will continue to be, significantly dependent on our relationships with our issuers and acquirers and their respective relationships with account holders and merchants to support our programs and services. Furthermore, we depend on our issuing partners and acquirers to continue to innovate to maintain competitiveness in the market. We do not issue cards or other payment devices, extend credit to account holders or determine the interest rates or other fees charged to account holders. Each issuer determines these and most other competitive payment program features. In addition, we do not establish the discount rate that merchants are charged for acceptance, which is the responsibility of our acquiring customers. As a result, our business significantly depends on the continued success and competitiveness of our issuing and acquiring customers and the strength of our relationships with them. In turn, our customers' success depends on a variety of factors over which we have little or no influence, including economic conditions in global financial markets or their disintermediation by competitors or emerging technologies, as well as regulation. If our customers become financially unstable, we may lose revenue or we may be exposed to settlement risk. See our risk factor in "Risk Factors - Settlement and Third-Party Obligations" in this Part I, Item 1A with respect to how we guarantee certain third-party obligations for further discussion.

With the exception of the United States and a select number of other jurisdictions, most in-country (as opposed to cross-border) transactions conducted using Mastercard, Maestro and Cirrus cards are authorized, cleared and settled by our customers or other processors. Because we do not provide domestic switching services in these countries and do not, as described above, have direct relationships with account holders, we depend on our close working relationships with our customers to effectively manage our brands, and the perception of our payments system, among consumers in these countries. We also rely on these customers to help manage our brands and perception among regulators and merchants in these countries, alongside our own relationships with them. From time to time, our customers may take actions that we do not believe to be in the best interests of our payments system overall, which may materially and adversely impact our business.

**Merchants' continued focus on acceptance costs may lead to additional litigation and regulatory proceedings and increase our incentive program costs, which could materially and adversely affect our profitability.**

Merchants are important constituents in our payments system. We rely on both our relationships with them, as well as their relationships with our issuer and acquirer customers, to continue to expand the acceptance of our integrated products and services. We also work with merchants to help them enable new sales channels, create better purchase experiences, improve efficiencies, increase revenues and fight fraud. In the retail industry, there is a set of larger merchants with increasingly global scope and influence that we believe are having a significant impact on all participants in the global payments industry, including Mastercard. Some large merchants have supported the legal, regulatory and legislative challenges to interchange fees that Mastercard has been defending, including the U.S. merchant litigations. Some merchants are increasingly asking regulators to review and potentially regulate our own network fees, in addition to interchange. See our risk factor in "Risk Factors – Other Regulation" in this Part I, Item 1A with respect to payments industry regulation, including interchange fees. The continued focus of merchants on the costs of accepting various forms of payment, including in connection with the growth of digital payments, may lead to additional litigation and regulatory proceedings.

Certain larger merchants are also able to negotiate incentives from us and pricing concessions from our issuer and acquirer customers as a condition to accepting our products. We also make payments to certain merchants to incentivize them to create co-branded payment programs with us. As merchants consolidate and become even larger, we may have to increase the amount of incentives that we provide to certain merchants, which could materially and adversely affect our results of operations. Competitive and regulatory pressures on pricing could make it difficult to offset the costs of these incentives. Additionally, if the rate of merchant acceptance growth slows our business could suffer.

**Our work with governments exposes us to unique risks that could have a material impact on our business and results of operations.**

As we increase our work with national, state and local governments, both indirectly through financial institutions and with them directly as our customers, we may face various risks inherent in associating or contracting directly with governments. These risks include, but are not limited to, the following:

- Governmental entities typically fund projects through appropriated monies. Changes in governmental priorities or other political developments, including disruptions in governmental operations, could impact approved funding and result in changes in the scope, or lead to the termination, of the arrangements or contracts we or financial institutions enter into with respect to our payment products and services.
- Our work with governments subjects us to U.S. and international anti-corruption laws, including the U.S. Foreign Corrupt Practices Act and the U.K. Bribery Act. A violation and subsequent judgment or settlement under these laws could subject us to substantial monetary penalties and damages and have a significant reputational impact.
- Working or contracting with governments, either directly or via our financial institution customers, can subject us to heightened reputational risks, including extensive scrutiny and publicity, as well as a potential association with the policies of a government as a result of a business arrangement with that government. Any negative publicity or negative association with a government entity, regardless of its accuracy, may adversely affect our reputation.

## Global Economic and Political Environment

**Global economic, political, financial and societal events or conditions could result in a material and adverse impact on our overall business and results of operations.**

*Adverse economic trends.* Adverse economic trends in key countries in which we operate may adversely affect our financial performance. Such impact may include, but is not limited to, the following:

- Customers mitigating their economic exposure by limiting the issuance of new Mastercard products and requesting greater incentive or greater cost stability from us
- Consumers and businesses lowering spending, which could impact domestic and cross-border spend
- Government intervention (including the effect of laws, regulations and/or government investments on or in our financial institution customers), as well as uncertainty due to changing political regimes in executive, legislative and/or judicial branches of government, that may have potential negative effects on our business and our relationships with customers or otherwise alter their strategic direction away from our products
- Tightening of credit availability that could impact the ability of participating financial institutions to lend to us under the terms of our credit facility

*Cross-border transactions.* We switch substantially all cross-border transactions using Mastercard, Maestro and Cirrus-branded cards and generate a significant amount of revenue from cross-border volume fees and fees related to switched transactions. Revenue from switching cross-border and currency conversion transactions for our customers fluctuates with the levels and destinations of cross-border travel and our customers' need for transactions to be converted into their base currency. Cross-border activity has, and may continue to be, adversely affected by world geopolitical, economic, health, weather and other conditions. These include COVID-19, as well as the threat of terrorism and separate outbreaks of flu, viruses and other diseases (any of which could result in future epidemics or pandemics), as well as major environmental and extreme weather events, including those related to climate change. The impact of and uncertainty that could result from any of these events or factors could ultimately decrease cross-border activity. Additionally, any regulation of interregional interchange fees could also negatively impact our cross-border activity (for example, the targets announced by the G20 Financial Stability Board related to cross-border payments). In each case, decreased cross-border activity could decrease the revenue we receive.

*Russia's invasion of Ukraine.* In response to the Russian invasion of Ukraine, the United States, the European Union and other governments imposed sanctions and other restrictive measures on certain Russian-related entities and individuals and we suspended our business operations in Russia. We have experienced loss of revenue in this fast-growing market as a result of both the implementation of sanctions and the suspension of our business operations, as well as related impacts in Ukraine and throughout the region. Future developments (including the expansion or extension of the war, future sanctions and/or actions taken by others globally, and other macroeconomic factors) could result in further negative impacts on our business and financial results. As customers, merchants and other business partners are impacted by the invasion, it can further negatively affect the environment in which we operate. Moreover, our compliance with sanctions and our decision to suspend business operations has led, and could further lead, to other legal ramifications and operational challenges, including fines, the nationalization of our subsidiary and any resulting impacts, and/or lawsuits.

**Standards.** Our operations as a global payments network rely in part on global interoperable standards to help facilitate safe and simple payments. To the extent geopolitical events result in jurisdictions no longer participating in the creation or adoption of these standards, or the creation of competing standards, the products and services we offer could be negatively impacted.

Any of these developments could have a material adverse impact on our overall business and results of operations.

**The global COVID-19 pandemic and measures taken in response have adversely impacted our business, results of operations and financial condition, and may continue to do so depending on future developments, which are uncertain.**

While conditions related to the global COVID-19 pandemic generally improved in 2022, the pandemic continues to have negative effects on the global economy and has affected business activity, in particular, in areas such as travel and supply chains. These impacts have continued to adversely impact consumers, our customers, suppliers and business partners, as well as our workforce. Governments, businesses and consumers continue to react to changing conditions, including the emergence of variants of the virus, the severity of infections on a regional basis and the global administration of vaccines and boosters. Such reactions have included tightening or loosening safety measures and border restrictions or voluntarily making personal safety decisions, as applicable, based on the current environment of their location.

The COVID-19 pandemic has adversely impacted our business, results of operations and financial condition. There are no comparable recent events which may provide guidance as to the future effects of a global pandemic such as COVID-19, and, as a result, the ultimate impact of this pandemic or a similar health epidemic in the future is uncertain and subject to change. The full extent to which the COVID-19 pandemic, and measures taken in response, further impacts our business, results of operations and financial condition will depend on future developments, which are uncertain, including, but not limited to, the duration of the pandemic and its impact on the global economy, including the extent to which we can continue to progress toward and maintain more consistent economic and operating conditions. Even after the COVID-19 pandemic has subsided, we may continue to experience materially adverse impacts to our business and our results of operations as a result of its global economic impact, including any recession that has occurred or may occur in the future.

**Adverse currency fluctuations and foreign exchange controls could negatively impact our results of operations.**

During 2022, approximately 67% of our revenue was generated from activities outside the United States. This revenue (and the related expense) could be transacted in a non-functional currency or valued based on a currency other than the functional currency of the entity generating the revenues. Resulting exchange gains and losses are included in our net income. Our risk management activities provide protection with respect to adverse changes in the value of only a limited number of currencies and are based on estimates of exposures to these currencies.

In addition, some of the revenue we generate outside the United States is subject to unpredictable currency fluctuations including devaluation of currencies where the values of other currencies change relative to the U.S. dollar. If the U.S. dollar strengthens compared to currencies in which we generate revenue, this revenue may be translated at a materially lower amount than expected. Furthermore, we may become subject to exchange control regulations that might restrict or prohibit the conversion of our other revenue currencies into U.S. dollars, such as what we have experienced in Venezuela.

The occurrence of currency fluctuations or exchange controls could have a material adverse impact on our results of operations.

## Brand, Reputational Impact and ESG

**Negative brand perception may materially and adversely affect our overall business.**

Our brands and their attributes are key assets of our business. The ability to attract consumers to our branded products and retain them depends upon the external perception of us and our industry:

- Our business may be affected by actions taken by our customers, merchants or other organizations that impact the perception of our brands or the payments industry in general. From time to time, our customers may take actions that we do not believe to be in the best interests of our brands, such as creditor practices that may be viewed as “predatory”. Moreover, adverse developments with respect to our industry or the industries of our customers or other companies and organizations that use our products and services (including certain legally permissible but high- risk merchant categories, such as adult content, firearms, alcohol and tobacco) may also, by association, impair our reputation, or result in greater public, regulatory or legislative scrutiny, as well as potential litigation. We may also face similar scrutiny to the extent that we are unable to detect and/or prevent illegal activities using our payment products or otherwise occurring over our network.
- We have been pursuing the use of social media channels at an increasingly rapid pace. Under some circumstances, our use of social media, or the use of social media by others as a channel for criticism or other purposes, could also cause rapid, widespread reputational harm to our brands by disseminating rapidly and globally actual or perceived damaging information about us, our products or merchants or other end users who utilize our products.

- We are headquartered in the United States. As such, a negative perception of the United States could impact the perception of our company, which could adversely affect our business.

Any of the above issues could have a material and adverse effect on our overall business.

**Lack of visibility of our brand in our products and services, or in the products and services of our partners who use our technology, may materially and adversely affect our business.**

As more players enter the global payments ecosystem, the layers between our brand and consumers and merchants increase. In order to compete with other powerful consumer brands that are also becoming part of the consumer payment experience, we often partner with those brands on payment solutions. These brands include large digital companies and other technology companies who are our customers and use our networks to build their own acceptance brands. In some cases, our brand may not be featured in the payment solution or may be secondary to other brands. Additionally, as part of our relationships with some issuers, our payment brand is only included on the back of the card. As a result, our brand may either be invisible to consumers or may not be the primary brand with which consumers associate the payment experience. This brand invisibility, or any consumer confusion as to our role in the consumer payment experience, could decrease the value of our brand, which could adversely affect our business.

**ESG matters and related stakeholder reaction may impact our reputation, expose us to legal requirements and liability and/or have other business impacts, which could adversely affect our overall business and/or results of operations.**

Our brand and reputation are associated with our public commitments to various ESG initiatives, including our goals relating to climate (e.g., our commitment to achieve net-zero emissions by 2040), financial inclusion, and diversity, equity and inclusion. Consumers, investors, employees and other stakeholders are increasingly focused on ESG practices, and to the extent any of our ESG disclosures, public statements and metrics are subsequently viewed as inaccurate, or we are unable to execute on our sustainability initiatives, we may be viewed negatively by stakeholders concerned about these matters. These stakeholders may also have a negative view of us to the extent we have been or in the future are perceived to have not responded appropriately to growing concerns with respect to ESG matters or take or do not take positions that are unpopular with them.

In addition, various jurisdictions are increasingly adopting or considering laws and regulations that have or would impact us pertaining to ESG governance, strategy, risk management and metrics/targets. Regulations already adopted or being considered include required corporate reporting and disclosures on specific topics (such as climate and human rights) as well as broader matters (such as other environmental matters, treatment of employees and diversity of workforce). These requirements would likely result in increased compliance costs for our business and supply chain, which may increase our operating costs.

Moreover, as governments, investors and other stakeholders face pressure to address climate change and other ESG matters, these stakeholders may express new expectations and focus investments in ways that could cause significant shifts in commerce and consumption behaviors. The impact of and uncertainty that could result from such shifts could ultimately impact our business.

Any of the above issues could have a material or adverse impact to our overall business and/or results of operations.

## Talent and Culture

**We may not be able to attract and retain a highly qualified and diverse workforce, or maintain our corporate culture, which could harm our overall business and results of operations.**

Our performance largely depends on the talents and efforts of our employees (including our people leaders), as well as the environment we create for them to enable them to perform their jobs effectively. The market for specialized skill-sets is highly competitive, particularly in technology and other areas that are important to the growth of our business. Our inability to meet candidate demands has led in recent years, and may continue to lead, to an increase in declined offers. In addition, high inflation has impacted both cost structure and employee demand for wage growth, which may lead to talent attrition. Moreover, changes in and enforcement of immigration and work permit laws and visa regulations have made it difficult for employees to work in, or transfer among, jurisdictions where we operate, potentially impairing our ability to attract and retain talent.

In the wake of the global COVID-19 pandemic and the influence of work flexibility on candidate decisions, we have adapted our policies and practices to allow for flexible team-driven work arrangements (including both remote and hybrid). This approach may impact the nature of relationships among our workforce, which in turn could have a negative impact on the quality of our corporate culture and our ability to innovate. To the extent the arrangements we provide do not meet candidate or employee expectations for flexibility, this could also impact our ability to attract and retain talent.

Failure to attract, hire, develop, motivate and retain highly qualified and diverse employee talent could leave us vulnerable to not anticipating or identifying emerging customer or market opportunities. We also rely on our people leaders to display integrity and decency. To the extent our leaders behave in a manner that is not consistent with our values, we could experience significant impact to our brand and reputation, as well as to our corporate culture.

Any one or more of the above could harm our overall business and results of operations.

## Acquisitions

**Our efforts to enter into acquisitions, strategic investments or entry into new businesses could be impacted or prevented by regulatory scrutiny and could otherwise result in issues that could disrupt our business and harm our results of operations or reputation.**

We continue to evaluate our strategic acquisitions of complementary businesses, products or technologies, as well as acquiring interests in related joint ventures or other entities. As we do so, we face increasing regulatory scrutiny with respect to antitrust, national security and other considerations that could impact these efforts. We also face competition for acquisition targets due to the nature of the market for technology companies. As a result, we could be prevented from successfully completing such acquisitions in the future. If we are not successful in these efforts, we could lose strategic opportunities that are dependent, in part, on inorganic growth.

To the extent we do make these acquisitions, we may not be able to successfully partner with or integrate them, despite original intentions and focused efforts. In addition, such an integration may divert management's time and resources from our core business and disrupt our operations. Moreover, we may spend time and money on acquisitions or projects that do not meet our expectations or increase our revenue. To the extent we pay the purchase price of any acquisition in cash, it would reduce our cash reserves available to us for other uses, and to the extent the purchase price is paid with our stock, it could be dilutive to our stockholders. Furthermore, we may inherit litigation risk which may increase our post-acquisition costs of operations and impact our ability to successfully finance that business.

Any acquisition or entry into a new business could subject us to new regulations, both directly as a result of the new business as well as in the other existing parts of our business, with which we would need to comply. This compliance could increase our costs, and we could be subject to liability or reputational harm to the extent we cannot meet any such compliance requirements. Additionally, targets that we acquire may have data practices that do not initially conform to our privacy and data protection standards and data governance model, which could lead to regulatory scrutiny and reputational harm.

## Settlement and Third-Party Obligations

**Our role as guarantor, as well as other contractual obligations, expose us to risk of loss or illiquidity.**

We are a guarantor of certain third-party obligations, including those of certain of our customers. In this capacity, we are exposed to credit and liquidity risk from these customers and certain service providers. We may incur significant losses in connection with transaction settlements if a customer fails to fund its daily settlement obligations due to technical problems, liquidity shortfalls, insolvency or other reasons. Concurrent settlement failures of more than one of our larger customers or of several of our smaller customers either on a given day or over a condensed period of time may exceed our available resources and could materially and adversely affect our results of operations.

We have significant contractual indemnification obligations with certain customers. Should an event occur that triggers these obligations, such an event could materially and adversely affect our overall business and results of operations.

## Class A Common Stock and Governance Structure

**Provisions in our organizational documents and Delaware law could be considered anti-takeover provisions and have an impact on change-in-control.**

Provisions contained in our amended and restated certificate of incorporation and bylaws and Delaware law could be considered anti-takeover provisions, including provisions that could delay or prevent entirely a merger or acquisition that our stockholders consider favorable. These provisions may also discourage acquisition proposals or have the effect of delaying or preventing entirely a change in control, which could harm our stock price. For example, subject to limited exceptions, our amended and restated certificate of incorporation prohibits any person from beneficially owning more than 15% of any of the Class A common stock or any other class or series of our stock with general voting power, or more than 15% of our total voting power. In addition:

- our stockholders are not entitled to the right to cumulate votes in the election of directors
- our stockholders are not entitled to act by written consent
- any representative of a competitor of Mastercard or of Mastercard Foundation is disqualified from service on our board of directors

**Mastercard Foundation's substantial stock ownership, and restrictions on its sales, may impact corporate actions or acquisition proposals favorable to, or favored by, the other public stockholders.**

As of February 8, 2023, Mastercard Foundation owned 101,253,283 shares of Class A common stock, representing approximately 10.7% of our general voting power. Currently, Mastercard Foundation may not sell or otherwise transfer its shares of Class A common stock prior to May 1, 2027, except to the extent necessary to satisfy its charitable disbursement requirements, for which purpose earlier sales are permitted and have occurred. Based on that timing, Mastercard Foundation would be permitted to sell all of its remaining shares beginning May 1, 2027, subject to certain conditions. The directors of Mastercard Foundation are required to be independent of us and our customers. The ownership of Class A common stock by Mastercard Foundation, together with the restrictions on transfer, could discourage or make more difficult acquisition proposals favored by the other holders of the Class A common stock. In addition, because Mastercard Foundation is restricted from selling its shares for an extended period of time, it may not have the same interest in short or medium-term movements in our stock price as, or incentive to approve a corporate action that may be favorable to, our other stockholders.

## Item 1B. Unresolved staff comments

Not applicable.

## Item 2. Properties

We own our corporate headquarters, located in Purchase, New York, and our principal technology and operations center, located in O'Fallon, Missouri. As of December 31, 2022, Mastercard and its subsidiaries owned or leased commercial properties throughout the U.S. and other countries around the world, consisting of corporate and regional offices, as well as our operations centers.

We believe that our facilities are suitable and adequate for the business that we currently conduct. However, we periodically review our space requirements and may acquire or lease new space to meet the needs of our business and address climate-related impacts, or consolidate and dispose of facilities that are no longer required.

## Item 3. Legal proceedings

Refer to Note 13 (Accrued Expenses and Accrued Litigation) and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

## Item 4. Mine safety disclosures

Not applicable.



## Information about our executive officers

(as of February 14, 2023)

Name Current Position	Age	Previous Mastercard Experience	Previous Business Experience
<b>Ajay Bhalla</b> <i>President, Cyber and Intelligence Solutions</i> since November 2018	57	President, Enterprise Security Solutions (2014-2018) President, Digital Gateway Services (2011-2013) President, South Asia and Southeast Asia (2008-2011) Various senior leadership positions, including President, Southeast Asia; Country Manager, Singapore and Head of Marketing, Southeast Asia; Vice President	Various leadership positions at HSBC and Xerox Corporation
<b>Michael Froman</b> <i>Vice Chairman and President, Strategic Growth</i> since April 2018	60	Mr. Froman joined the Company in 2018 in his current role	U.S. Trade Representative in the Executive Office of President Obama (2013-2017) Assistant to the President and Deputy National Security Advisor for International Economic Policy (2009-2013) Various senior leadership positions at Citigroup, including CEO, Citilnsurance and COO of Citigroup's alternative investments business
<b>Linda Kirkpatrick</b> <i>President, North America</i> since January 2021	46	President, U.S. Issuers (2020) Executive Vice President, Merchants and Acceptance (2016-2020) Senior Vice President, Core Merchants (2013-2016) Senior Vice President, Franchise Development (2011-2013) Vice President, U.S. Region (2008-2011) Vice President, Investor Relations	
<b>Hai Ling</b> <i>Co-President International Markets</i> since January 2022	52	Co-President, Asia Pacific (2015-2021) President, Enterprise Development (2014-2015) President, Greater China (2010-2014)	Various roles at Booz Allen Hamilton and Bank of America
<b>Raghu Malhotra</b> <i>Co-President International Markets</i> since January 2022	53	President, Middle East and Africa (2016-2021) Division President, Middle East and North Africa (2012-2015) Various leadership roles (2000-2005)	Various roles at Citicorp, American Express and ANZ Grindlays Bank (1992-2000)
<b>Edward McLaughlin</b> <i>President and Chief Technology Officer, Mastercard Technology</i> since May 2017	57	Chief Information Officer (2016-2017) Chief Emerging Payments Officer (2010-2015) Various senior leadership roles, including Chief Franchise Development Officer and Senior Vice President, Bill Payment and Healthcare	Group Vice President, Product and Strategy, Metavante Corporation Co-Founder and CEO, Paytrust, Inc.

Name Current Position	Age	Previous Mastercard Experience	Previous Business Experience
<b>Sachin Mehra</b> <i>Chief Financial Officer</i> since April 2019	52	Chief Financial Operations Officer (2018-2019) Executive Vice President, Commercial Products (2015-2018) Executive Vice President and Business Financial Officer, North America (2013-2015) Corporate Treasurer (2010-2013)	Various senior positions at Hess Corporation, including Vice President and Treasurer Various senior treasury and finance positions, General Motors Corporation and GMAC
<b>Michael Miebach</b> <i>President and Chief Executive Officer</i> since January 2021	55	President (2020) Chief Product Officer (2016-2020) President, Middle East and Africa (2010-2015)	Managing Director, Middle East and North Africa and Managing Director, Sub-Saharan Africa, Barclays Bank PLC Various executive positions at Citigroup in Germany, Austria, U.K. and Turkey
<b>Tim Murphy</b> <i>Chief Administrative Officer</i> since April 2021	55	General Counsel (2014-2021) Chief Product Officer (2009-2014) Various senior leadership roles, including President, U.S. Region; Executive Vice President, Customer Business Planning and Analysis; and Senior Vice President and Associate General Counsel	Associate, Cleary, Gottlieb, Steen and Hamilton, New York and London
<b>Raja Rajamannar</b> <i>Chief Marketing and Communications Officer and President, Healthcare</i> since January 2016	61	Chief Marketing Officer (2013-2015)	Executive Vice President-Senior Business and Chief Transformation Officer, Anthem (formerly, WellPoint, Inc.) (2012-2013) Senior Vice President and Chief Innovation and Marketing Officer, Humana Inc. (2009-2012) Various management positions at Citigroup, including Executive Vice President and Chief Marketing Officer-Citi Global Cards
<b>Raj Seshadri</b> <i>President, Data and Services</i> since January 2020	57	President, U.S. Issuers (2016-2019)	Managing Director, Head of iShares U.S. Wealth Advisory business, BlackRock (2014-2016) Managing Director, Global Marketing Officer of iShares, BlackRock, Inc. (2012-2014) Various leadership positions at Citigroup, U.S. Trust Company and McKinsey & Company, Inc.
<b>Craig Vosburg</b> <i>Chief Product Officer</i> since January 2021	55	President, North America (2016-2020) Chief Product Officer (2014-2015) Executive Vice President, U.S. Market Development (2010-2014) Various senior leadership roles, including Head of Mastercard Advisors, U.S. and Canada and Head of Mastercard Advisors, Southeast Asia, Greater China and South Asia/Middle East/Africa	Senior member-financial services practice, Bain & Company and A.T. Kearney Vice President, CoreStates Financial Corporation

## PART II

Item 5. Market for registrant's common equity, related stockholder matters and issuer purchases of equity securities

Item 6. Reserved

Item 7. Management's discussion and analysis of financial condition and results of operations

Item 7A. Quantitative and qualitative disclosures about market risk

Item 8. Financial statements and supplementary data

Item 9. Changes in and disagreements with accountants on accounting and financial disclosure

Item 9A. Controls and procedures

Item 9B. Other information

## Item 5. Market for registrant's common equity, related stockholder matters and issuer purchases of equity securities

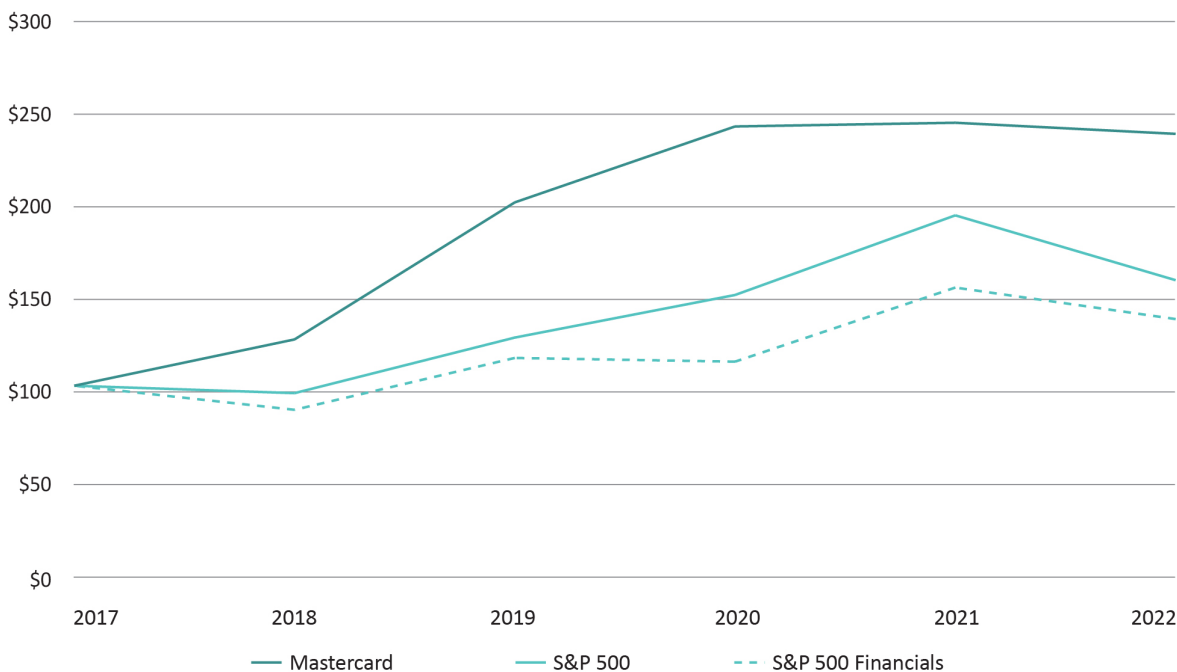
Our Class A common stock trades on the New York Stock Exchange under the symbol "MA". At February 8, 2023, we had 71 stockholders of record for our Class A common stock. We believe that the number of beneficial owners is substantially greater than the number of record holders because a large portion of our Class A common stock is held in "street name" by brokers.

There is currently no established public trading market for our Class B common stock. There were approximately 233 holders of record of our non-voting Class B common stock as of February 8, 2023, constituting approximately 0.8% of our total outstanding equity.

### Stock Performance Graph

The graph and table below compare the cumulative total stockholder return of Mastercard's Class A common stock, the S&P 500 and the S&P 500 Financials for the five-year period ended December 31, 2022. The graph assumes a \$100 investment in our Class A common stock and both of the indices and the reinvestment of dividends. Mastercard's Class B common stock is not publicly traded or listed on any exchange or dealer quotation system.

#### Comparison of cumulative five-year total return



Total returns to stockholders for each of the years presented were as follows:

Company/Index	Base period	Indexed Returns				
		For the Years Ended December 31,				
		2017	2018	2019	2020	2021
Mastercard	\$ 100.00	\$ 125.32	\$ 199.46	\$ 239.70	\$ 242.47	\$ 236.03
S&P 500	100.00	95.62	125.72	148.85	191.58	156.88
S&P 500 Financials	100.00	86.97	114.91	112.96	152.54	136.48

### Dividend Declaration and Policy

On December 6, 2022, our Board of Directors declared a quarterly cash dividend of \$0.57 per share paid on February 9, 2023 to holders of record on January 9, 2023 of our Class A common stock and Class B common stock. On February 14, 2023, our Board of Directors declared a quarterly cash dividend of \$0.57 per share payable on May 9, 2023 to holders of record on April 7, 2023 of our Class A common stock and Class B common stock.

Subject to legally available funds, we intend to continue to pay a quarterly cash dividend on our outstanding Class A common stock and Class B common stock. However, the declaration and payment of future dividends is at the sole discretion of our Board of Directors after taking into account various factors, including our financial condition, operating results, available cash and current and anticipated cash needs.

### Issuer Purchases of Equity Securities

During the fourth quarter of 2022, we repurchased 7.4 million shares for \$2.4 billion at an average price of \$328.26 per share of Class A common stock. See Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8 for further discussion with respect to our share repurchase programs. The following

table presents our repurchase activity on a cash basis during the fourth quarter of 2022:

Period	Total Number of Shares Purchased	Average Price Paid per Share (including commission cost)	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Dollar Value of Shares that may yet be Purchased under the Plans or Programs <sup>1</sup>
October 1 – 31	2,170,087	\$ 297.01	2,170,087	\$ 4,943,927,887
November 1 – 30	2,444,959	\$ 333.87	2,444,959	\$ 4,127,621,138
December 1 – 31	2,740,325	\$ 348.01	2,740,325	\$ 12,173,961,341
Total	7,355,371	\$ 328.26	7,355,371	

<sup>1</sup> Dollar value of shares that may yet be purchased under the share repurchase programs is as of the end of the period.

<sup>2</sup> In December 2022 and November 2021, our Board of Directors approved share repurchase programs of our Class A common stock authorizing us to repurchase up to \$9.0 billion and \$8.0 billion, respectively.

## Item 6. [Reserved]

## Item 7. Management's discussion and analysis of financial condition and results of operations

The following discussion should be read in conjunction with the consolidated financial statements and notes of Mastercard Incorporated and its consolidated subsidiaries, including Mastercard International Incorporated ("Mastercard International") (together, "Mastercard" or the "Company"), included elsewhere in this Report. Percentage changes provided throughout "Management's Discussion and Analysis of Financial Condition and Results of Operations" were calculated on amounts rounded to the nearest thousand. For discussion related to the results of operations for the year ended December 31, 2021 compared to the year ended December 31, 2020, please see Part II, Item 7 of our Annual Report on Form 10-K for the year ended December 31, 2021. During 2022, the Company updated its disaggregated net revenue presentation by category and geography to reflect the nature of its payment services and to align such information with the way in which management will prospectively view its categories of net revenue. Prior period amounts have been reclassified to conform to the 2022 presentation. The reclassification had no impact on previously reported total net revenue, operating income or net income.

### Business Overview

Mastercard is a technology company in the global payments industry. We connect consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide by enabling electronic payments instead of cash and checks and making those payment transactions safe, simple, smart, and accessible. We make payments easier and more efficient by providing a wide range of payment solutions and services using our family of well-known and trusted brands, including Mastercard®, Maestro® and Cirrus®. We operate a multi-rail payments network that provides choice and flexibility for consumers, merchants and our customers. Through our unique and proprietary core global payments network, we switch (authorize, clear and settle) payment transactions. We have additional payment capabilities that include automated clearing house ("ACH") transactions (both batch and real-time account-based payments). Using these capabilities, we offer integrated payment products and services and capture new payment flows. Our value-added services include, among others, cyber and intelligence solutions to allow all parties to transact easily and with confidence, as well as other services that provide proprietary insights, drawing on our principled use of secure consumer and merchant data. Our investments in new networks, such as open banking solutions and digital identity capabilities, support and strengthen our payments and services solutions. Our franchise model sets the standards and ground-rules for our core global payments network that balance value and risk across all stakeholders and allows for interoperability among them. Our payment solutions are designed to ensure safety and security for the global payments ecosystem.

Mastercard is not a financial institution. We do not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants' acceptance of our products. In most cases, account holder relationships belong to, and are managed by, our customers.

### Russia and Ukraine

Beginning in February 2022, in response to the Russian invasion of Ukraine, the United States, the European Union and other governments imposed sanctions and other restrictive measures on certain Russian-related entities and individuals and, in March 2022, we suspended our business operations in Russia<sup>1</sup>. We have taken steps necessary to ensure compliance with all applicable regulatory restrictions with sanctioned entities and individuals and have suspended our business operations with non-sanctioned customers in Russia. Throughout this process, our priority has been the safety and well-being of our employees and their families.

These actions have impacted our full year 2022 performance. As a point of reference, for the year ended December 31, 2021, approximately 4% of our net revenues were derived from business conducted within, into and out of Russia. Additional financial implications directly related to these actions include, but are not limited to, incremental employee-related costs, reserves on uncollectible balances with certain customers and impacts to net revenue, primarily related to rebates and incentives as a result of revised estimates of customer performance through the date of the suspension of our business operations.

We continue to monitor the effects of the Russian invasion of Ukraine and the related impacts to regional and global economies. The full extent to which this matter affects our business, results of operations and financial condition will depend on future developments, including the duration of the invasion and the impacts on regional and global economies, which are uncertain, and cannot be predicted at this time.

<sup>1</sup> As a result of the suspension of our business operations, which included the suspension of our network services, cards issued by Russian banks are no longer supported by the Mastercard network regardless of where the cards are used, inside or outside of Russia. In addition, any Mastercard issued outside of Russia will not work at merchants or ATMs located in Russia.

## Financial Results Overview

The following table provides a summary of our key GAAP operating results, as reported:

	Year ended December 31,			2022 Increase/ (Decrease)	2021 Increase/ (Decrease)
	2022	2021	2020		
	(\$ in millions, except per share data)				
Net revenue	\$ 22,237	\$ 18,884	\$ 15,301	18%	23%
Operating expenses	\$ 9,973	\$ 8,802	\$ 7,220	13%	22%
Operating income	\$ 12,264	\$ 10,082	\$ 8,081	22%	25%
Operating margin	55.2 %	53.4 %	52.8 %	1.8 ppt	0.6 ppt
Income tax expense	\$ 1,802	\$ 1,620	\$ 1,349	11%	20%
Effective income tax rate	15.4 %	15.7 %	17.4 %	(0.4) ppt	(1.7) ppt
Net income	\$ 9,930	\$ 8,687	\$ 6,411	14%	35%
Diluted earnings per share	\$ 10.22	\$ 8.76	\$ 6.37	17%	38%
Diluted weighted-average shares outstanding	971	992	1,006	(2)%	(1)%

The following table provides a summary of our key non-GAAP operating results<sup>1</sup>, adjusted to exclude the impact of gains and losses on our equity investments, Special Items (which represent litigation judgments and settlements and certain one-time items) and the related tax impacts on our non-GAAP adjustments. In addition, we have presented growth rates, adjusted for the impact of currency:

	Year ended December 31,			2022 Increase/(Decrease)		2021 Increase/(Decrease)	
	2022	2021	2020	As adjusted	Currency-neutral	As adjusted	Currency-neutral
	(\$ in millions, except per share data)						
Adjusted net revenue	\$ 22,200	\$ 18,884	\$ 15,301	18%	23%	23%	22%
Adjusted operating expenses	\$ 9,549	\$ 8,627	\$ 7,147	11%	14%	21%	19%
Adjusted operating margin	57.0 %	54.3 %	53.3 %	2.7 ppt	3.4 ppt	1.0 ppt	1.2 ppt
Adjusted effective income tax rate	15.7 %	15.4 %	17.2 %	0.3 ppt	0.5 ppt	(1.8) ppt	(1.8) ppt
Adjusted net income	\$ 10,342	\$ 8,333	\$ 6,463	24%	32%	29%	28%
Adjusted diluted earnings per share	\$ 10.65	\$ 8.40	\$ 6.43	27%	34%	31%	30%

Note: Tables may not sum due to rounding.

<sup>1</sup> See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

Key highlights for 2022 as compared to 2021 were as follows:

<p><b>Net revenue</b></p> <p>GAAP</p> <p><b>up 18%</b></p>	<p><b>Adjusted net revenue</b></p> <p>Non-GAAP (currency-neutral)</p> <p><b>up 23%</b></p>	<p>Adjusted net revenue increased 23% on a currency-neutral basis. The increase was attributable to our payment network and our value-added services and solutions, which increased 26% and 18%, on a currency-neutral basis, respectively.</p>
<p><b>Operating expenses</b></p> <p>GAAP</p> <p><b>up 13%</b></p>	<p><b>Adjusted operating expenses</b></p> <p>Non-GAAP (currency-neutral)</p> <p><b>up 14%</b></p>	<p>Adjusted operating expenses increased 14% on a currency-neutral basis, which includes 4 percentage points of growth due to acquisitions. The remaining increase was primarily due to higher personnel costs, travel and meeting costs, and unfavorable foreign exchange activity.</p>
<p><b>Effective income tax rate</b></p> <p>GAAP</p> <p><b>15.4%</b></p>	<p><b>Adjusted effective income tax rate</b></p> <p>Non-GAAP (currency-neutral)</p> <p><b>15.7%</b></p>	<p>The adjusted effective income tax rate of 15.7% was higher than prior year due to the recognition of U.S. tax benefits in 2021 (the majority of which were discrete), a discrete tax benefit in 2021 related to the remeasurement of our net deferred tax asset in the U.K. and a discrete tax expense related to an unfavorable court ruling in 2022, all of which were partially offset by a discrete tax benefit in the first quarter of 2022 due to final U.S. tax regulations published in the current year.</p>

Other 2022 financial highlights were as follows:

- We generated net cash flows from operations of \$11.2 billion.
- We completed the acquisition of a business for total consideration of \$0.3 billion.
- We repurchased 25.7 million shares of our common stock for \$8.8 billion and paid dividends of \$1.9 billion.
- We completed a euro-denominated debt offering for an aggregate principal amount of \$0.8 billion and entered into an Indian rupee-denominated term loan for \$0.3 billion.

## Non-GAAP Financial Information

Non-GAAP financial information is defined as a numerical measure of a company's performance that excludes or includes amounts so as to be different than the most comparable measure calculated and presented in accordance with accounting principles generally accepted in the United States ("GAAP"). Our non-GAAP financial measures exclude the impact of gains and losses on our equity investments which includes mark-to-market fair value adjustments, impairments and gains and losses upon disposition and the related tax impacts. Our non-GAAP financial measures also exclude the impact of special items, where applicable, which represent litigation judgments and settlements and certain one-time items, as well as the related tax impacts ("Special Items"). Our non-GAAP financial measures for the comparable periods exclude the impact of the following:

### Gains and Losses on Equity Investments

- During 2022, 2021 and 2020, we recorded net losses of \$145 million (\$126 million after tax, or \$0.13 per diluted share), net gains of \$645 million (\$497 million after tax, or \$0.50 per diluted share) and net gains of \$30 million (\$15 million after tax, or \$0.01 per diluted share), respectively. These net gains and losses were primarily related to unrealized fair market value adjustments on marketable and nonmarketable equity securities. In addition, in 2021, net gains also included realized gains on sales of marketable equity securities.



## Special Items

### *Litigation provisions*

- During 2022, we recorded pre-tax charges of \$356 million (\$263 million after tax, or \$0.27 per diluted share) related to litigation provisions which included pre-tax charges of:
  - \$223 million as a result of settlements (both final and agreements in principle) with a number of U.K. merchants, and
  - \$133 million as a result of a change in estimate related to the claims of merchants who opted out of the U.S. merchant class litigation.
- During 2021, we recorded pre-tax charges of \$94 million (\$74 million after tax, or \$0.07 per diluted share) related to litigation settlements and estimated attorneys' fees with U.K. and Pan-European merchants.
- During 2020, we recorded pre-tax charges of \$73 million (\$67 million after tax, or \$0.07 per diluted share) related to litigation provisions which included pre-tax charges of:
  - \$45 million related to a legal matter associated with our prepaid cards in the U.K., and
  - \$28 million related to estimated attorneys' fees and litigation settlements with U.K. and Pan-European merchants.

### *Russia-related impacts*

- During 2022, we recorded a net charge of \$30 million (\$24 million after tax, or \$0.02 per diluted share), directly related to imposed sanctions and the suspension of our business operations in Russia. The net charge is comprised of general and administrative expenses of \$67 million, primarily related to incremental employee-related costs and reserves on uncollectible balances with certain sanctioned customers. These charges are offset by net benefits of \$37 million in net revenue, primarily related to a reduction in rebates and incentives liabilities as a result of lower estimates of customer performance for certain customer business agreements due to the suspension of our business operations in Russia.

### *Indirect tax matter*

- During 2021, we recorded a charge of \$88 million (\$69 million after tax, or \$0.07 per diluted share) to resolve a foreign indirect tax matter for 2015 through 2021 and the related interest expense. The charge is comprised of general and administrative expenses of \$82 million and other income (expense) of \$6 million.

See Note 7 (Investments) and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 and "Key Developments" above for further discussion related to certain of our non-GAAP financial measures. We excluded these items because management evaluates the underlying operations and performance of the Company separately from these recurring and nonrecurring items.

We believe that the non-GAAP financial measures presented facilitate an understanding of our operating performance and provide a meaningful comparison of our results between periods. We use non-GAAP financial measures to, among other things, evaluate our ongoing operations in relation to historical results, for internal planning and forecasting purposes and in the calculation of performance-based compensation.

## Currency-neutral Growth Rates

We present growth rates adjusted for the impact of currency, which is a non-GAAP financial measure. Currency-neutral growth rates are calculated by remeasuring the prior period's results using the current period's exchange rates for both the translational and transactional impacts on operating results. The impact of currency translation represents the effect of translating operating results where the functional currency is different than our U.S. dollar reporting currency. The impact of the transactional currency represents the effect of converting revenue and expenses occurring in a currency other than the functional currency of the entity. The impact of the related realized gains and losses resulting from our foreign exchange derivative contracts designated as cash flow hedging instruments is recognized in the respective financial statement line item on the statement of operations when the underlying forecasted transactions impact earnings. We believe the presentation of currency-neutral growth rates provides relevant information to facilitate an understanding of our operating results.

The translational and transactional impact of currency and the related impact of our foreign exchange derivative contracts designated as cash flow hedging instruments ("Currency impact") has been excluded from our currency-neutral growth rates and has been identified in our "Drivers of Change" tables. See "Foreign Currency - Currency Impact" for further information on our currency impacts and "Financial Results - Revenue and Operating Expenses" for our "Drivers of Change" tables.

Net revenue, operating expenses, operating margin, other income (expense), effective income tax rate, net income and diluted earnings per share adjusted for the impact of gains and losses on our equity investments, Special Items and/or the impact of

currency, are non-GAAP financial measures and should not be relied upon as substitutes for measures calculated in accordance with GAAP.

The following tables reconcile our reported financial measures calculated in accordance with GAAP to the respective adjusted non-GAAP financial measures:

	Year ended December 31, 2022						
	Net revenue	Operating expenses	Operating margin	Other income (expense)	Effective income tax rate	Net income	Diluted earnings per share
	(\$ in millions, except per share data)						
Reported - GAAP	\$ 22,237	\$ 9,973	55.2 %	\$ (532)	15.4 %	\$ 9,930	\$ 10.22
(Gains) losses on equity investments	**	**	**	145	— %	126	0.13
Litigation provisions	**	(356)	1.6 %	**	0.3 %	263	0.27
Russia-related impacts	(37)	(67)	0.2 %	**	— %	24	0.02
Adjusted - Non-GAAP	\$ 22,200	\$ 9,549	57.0 %	\$ (387)	15.7 %	\$ 10,342	\$ 10.65

	Year ended December 31, 2021						
	Net revenue	Operating expenses	Operating margin	Other income (expense)	Effective income tax rate	Net income	Diluted earnings per share
	(\$ in millions, except per share data)						
Reported - GAAP	\$ 18,884	\$ 8,802	53.4 %	\$ 225	15.7 %	\$ 8,687	\$ 8.76
(Gains) losses on equity investments	**	**	**	(645)	(0.5)%	(497)	(0.50)
Litigation provisions	**	(94)	0.5 %	**	0.1 %	74	0.07
Indirect tax matter	**	(82)	0.4 %	6	0.1 %	69	0.07
Adjusted - Non-GAAP	\$ 18,884	\$ 8,627	54.3 %	\$ (413)	15.4 %	\$ 8,333	\$ 8.40

	Year ended December 31, 2020						
	Net revenue	Operating expenses	Operating margin	Other income (expense)	Effective income tax rate	Net income	Diluted earnings per share
	(\$ in millions, except per share data)						
Reported - GAAP	\$ 15,301	\$ 7,220	52.8 %	\$ (321)	17.4 %	\$ 6,411	6.37
(Gains) losses on equity investments	**	**	**	(30)	(0.1)%	(15)	(0.01)
Litigation provisions	**	(73)	0.5 %	**	(0.1)%	67	0.07
Adjusted - Non-GAAP	\$ 15,301	\$ 7,147	53.3 %	\$ (351)	17.2 %	\$ 6,463	\$ 6.43

Note: Tables may not sum due to rounding.

\*\* Not applicable

The following tables represent the reconciliation of our growth rates reported under GAAP to our non-GAAP growth rates:

	Year Ended December 31, 2022 as compared to the Year Ended December 31, 2021					
	Increase/(Decrease)					
	Net revenue	Operating expenses	Operating margin	Effective income tax rate	Net income	Diluted earnings per share
Reported - GAAP	18 %	13 %	1.8 ppt	(0.4) ppt	14 %	17 %
(Gains) losses on equity investments	**	**	**	0.5 ppt	8 %	9 %
Litigation provisions	**	(3)%	1.1 ppt	0.3 ppt	2 %	2 %
Russia-related impacts	—	(1)%	0.2 ppt	— ppt	— %	— %
Indirect tax matter	**	1 %	(0.4) ppt	(0.1) ppt	(1)%	(1)%
Adjusted - Non-GAAP	18 %	11 %	2.7 ppt	0.3 ppt	24 %	27 %
Currency impact <sup>1</sup>	5 %	3 %	0.8 ppt	0.2 ppt	8 %	8 %
Adjusted - Non-GAAP - currency-neutral	23 %	14 %	3.4 ppt	0.5 ppt	32 %	34 %

	Year Ended December 31, 2021 as compared to the Year Ended December 31, 2020					
	Increase/(Decrease)					
	Net revenue	Operating expenses	Operating margin	Effective income tax rate	Net income	Diluted earnings per share
Reported - GAAP	23 %	22 %	0.6 ppt	(1.7) ppt	35 %	38 %
(Gains) losses on equity investments	**	**	**	(0.4) ppt	(7)%	(8)%
Litigation provisions	**	— %	— ppt	0.1 ppt	— %	— %
Indirect tax matter	**	(1)%	0.4 ppt	0.1 ppt	1 %	1 %
Adjusted - Non-GAAP	23 %	21 %	1.0 ppt	(1.8) ppt	29 %	31 %
Currency impact <sup>1</sup>	(1)%	(2)%	0.2 ppt	— ppt	(1)%	(1)%
Adjusted - Non-GAAP - currency-neutral	22 %	19 %	1.2 ppt	(1.8) ppt	28 %	30 %

Note: Tables may not sum due to rounding.

\*\* Not applicable

<sup>1</sup> See "Non-GAAP Financial Information" for further information on Currency impact.

## Key Metrics

In addition to the financial measures described above in "Financial Results Overview", we review the following metrics to evaluate and identify trends in our business, measure our performance, prepare financial projections and make strategic decisions. We believe that the key metrics presented facilitate an understanding of our operating and financial performance and provide a meaningful comparison of our results between periods.

**Operating Margin** measures how much profit we make on each dollar of sales after our operating costs but before other income (expense) and income tax expense. Operating margin is calculated by dividing our operating income by net revenue.

## Key Drivers

**Gross Dollar Volume ("GDV")**<sup>1</sup> measures dollar volume of activity, including both domestic and cross-border volume, on cards carrying our brands during the period, on a local currency basis and U.S. dollar-converted basis. GDV represents purchase volume plus cash volume; "purchase volume" means the aggregate dollar amount of purchases made with Mastercard-branded cards for the relevant period; and "cash volume" means the aggregate dollar amount of cash disbursements and includes the impact of balance transfers and convenience checks obtained with Mastercard-branded cards for the relevant period. Information denominated in U.S. dollars relating to GDV is calculated by applying an established U.S. dollar/local currency exchange rate for each local currency in which our volumes are reported. These exchange rates are calculated on a quarterly basis using the average exchange rate for each quarter. We report period-over-period rates of change in purchase volume and cash volume on the basis of local currency information, in order to eliminate the impact of changes in the value of currencies against the U.S. dollar in calculating such rates of change.

**Cross-border Volume Growth**<sup>2</sup> measures the growth of cross-border dollar volume during the period, on a local currency basis and U.S. dollar-converted basis, for all Mastercard-branded programs.

**Switched Transactions**<sup>2</sup> measures the number of transactions switched by Mastercard, which is defined as the number of transactions initiated and switched through our network during the period.

<sup>1</sup> Data used in the calculation of GDV is provided by Mastercard customers and is subject to verification by Mastercard and partial cross-checking against information provided by Mastercard's transaction switching systems. All data is subject to revision and amendment by Mastercard or Mastercard's customers. Starting in the first quarter of 2022, data related to sanctioned Russian banks was not reported to us and therefore such amounts are not included. Subsequent to the suspension of our business operations in Russia in March 2022, there is no Russian data to be reported.

<sup>2</sup> Growth rates are normalized to eliminate the effects of differing switching and carryover days between periods. Carryover days are those where transactions and volumes from days where the Company does not clear and settle are processed. In the fourth quarter of 2021, we began clearing and settling transactions and volumes on a daily basis.

The following tables provide a summary of the growth trends in our key drivers.

	For the Years Ended December 31,			
	2022		2021	
	Increase/(Decrease)			
	USD	Local	USD	Local
Mastercard-branded GDV growth <sup>1</sup>	6%	12%	22%	21%
United States	10%	10%	23%	23%
Worldwide less United States	4%	13%	22%	20%
Cross-border volume growth <sup>1</sup>	33%	45%	35%	32%
Mastercard-branded GDV growth adjusted for Russia <sup>1,2</sup>	10%	18%	22%	20%
Worldwide less United States GDV growth adjusted for Russia <sup>1,2</sup>	10%	22%	22%	19%
Cross-border volume growth adjusted for Russia <sup>1,2</sup>	37%	50%	35%	31%

	For the Years Ended December 31,	
	Increase/(Decrease)	
	2022	2021
Switched transactions growth	12%	25%
Switched transactions growth adjusted for Russia <sup>2</sup>	21%	24%

<sup>1</sup> Excludes volume generated by Maestro and Cirrus cards.

<sup>2</sup> Starting in the first quarter of 2022, as a result of imposed sanctions and the suspension of our business operations in Russia, we have provided adjusted growth rates for our key drivers excluding activity from Russian issued cards from the current and prior periods.

#### Key Metrics related to the Payment Network

Assessments represent agreed upon standard pricing provided to our customers based on various forms of payment-related activity. Assessments are used internally by management to monitor operating performance as it allows for comparability and provides visibility into cardholder trends. Assessments do not represent our net revenue.

The following provides additional information on our key metrics related to the payment network:

- **Domestic assessments** are charges based on activity related to cards that carry the Company's brands where the merchant country and the country of issuance are the same. These assessments are primarily driven by the domestic dollar volume of activity (e.g., domestic purchase volume, domestic cash volume) or the number of cards issued.
- **Cross-border assessments** are charges based on activity related to cards that carry the Company's brands where the merchant country and the country of issuance are different. These assessments are primarily driven by the cross-border dollar volume of activity (e.g., cross-border purchase volume, cross-border cash volume).

- **Transaction processing assessments** are charges primarily driven by the number of switched transactions on our payment network. Switching activities include:
  - Authorization, the process by which a transaction is routed to the issuer for approval
  - Clearing, the determination and exchange of financial transaction information between issuers and acquirers after a transaction has been successfully conducted at the point of interaction
  - Settlement, which facilitates the determination and exchange of funds between parties

These assessments can also include connectivity services and network access which are based on the volume of data transmitted and the number of authorization and settlement messages.

- **Other network assessments** are charges for licensing, implementation and other franchise fees.

The following table provides a summary of our key metrics related to the payment network.

	Year ended December 31,			2022		2021	
	2022	2021	2020	Increase/(Decrease)	Currency-neutral Increase/(Decrease)	Increase/(Decrease)	Currency-neutral Increase/(Decrease)
				(\$ in millions)			
Domestic assessments	\$ 8,794	\$ 8,064	\$ 6,598	9%	12%	22%	22%
Cross-border assessments	6,597	4,646	3,498	42%	53%	33%	30%
Transaction processing assessments	10,646	9,041	7,137	18%	23%	27%	26%
Other network assessments	766	668	659	15%	14%	1%	4%

## Foreign Currency

### Currency Impact

Our primary revenue functional currencies are the U.S. dollar, euro, Brazilian real and the British pound. Our overall operating results are impacted by currency translation, which represents the effect of translating operating results where the functional currency is different than our U.S. dollar reporting currency.

Our operating results are also impacted by transactional currency. The impact of the transactional currency represents the effect of converting revenue and expense transactions occurring in a currency other than the functional currency. Changes in currency exchange rates directly impact the calculation of gross dollar volume ("GDV") and gross euro volume ("GEV"), which are used in the calculation of our key metrics related to domestic assessments and cross-border assessments as well as certain volume-related rebates and incentives. In most non-European regions, GDV is calculated based on local currency spending volume converted to U.S. dollars using average exchange rates for the period. In Europe, GEV is calculated based on local currency spending volume converted to euros using average exchange rates for the period. As a result, our key metrics related to domestic assessments and cross-border assessments as well as certain volume-related rebates and incentives are impacted by the strengthening or weakening of the U.S. dollar versus non-European local currencies and the strengthening or weakening of the euro versus other European local currencies. For example, our billing in Australia is in the U.S. dollar, however, consumer spend in Australia is in the Australian dollar. The currency transactional impact of converting Australian dollars to our U.S. dollar billing currency will have an impact on the revenue generated. The strengthening or weakening of the U.S. dollar is evident when GDV growth on a U.S. dollar-converted basis is compared to GDV growth on a local currency basis. In 2022, GDV on a U.S. dollar-converted basis increased 5.9%, while GDV on a local currency basis increased 12.3% versus 2021. In 2021, GDV on a U.S. dollar-converted basis increased 22.0%, while GDV on a local currency basis increased 20.6% versus 2020. Further, the impact from transactional currency occurs in transaction processing revenue, other revenue and operating expenses when the local currency of these items is different than the functional currency of the entity.

Through December 31, 2020, our approach to managing transactional currency exposure consisted of hedging a portion of anticipated revenues impacted by transactional currencies by entering into foreign exchange derivative contracts, and recording the related changes in fair value in general and administrative expenses on the consolidated statement of operations. During the first quarter of 2021, we started to formally designate certain newly-executed foreign exchange derivative contracts, which meet the established accounting criteria, as cash flow hedges. Gains and losses resulting from changes in fair value of these designated

contracts are deferred in accumulated other comprehensive income (loss) and subsequently recognized in the respective component of net revenue when the underlying forecasted transactions impact earnings.

#### Foreign Exchange Activity

We incur foreign currency gains and losses from remeasuring monetary assets and liabilities, including settlement assets and obligations, that are denominated in a currency other than the functional currency of the entity. To manage this foreign exchange risk, we may enter into foreign exchange derivative contracts to economically hedge the foreign currency exposure of a portion of our nonfunctional currency monetary assets and liabilities. The gains or losses resulting from the changes in fair value of these contracts are intended to reduce the potential effect of the underlying hedged exposure and are recorded net within general and administrative expenses on the consolidated statement of operations. The impact of this foreign exchange activity, including the related hedging activities, has not been eliminated in our currency-neutral results.

Our foreign exchange risk management activities are discussed further in Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8.

#### Risk of Currency Devaluation

We are exposed to currency devaluation in certain countries. In addition, we are subject to exchange control regulations that restrict the conversion of financial assets into U.S. dollars. While these revenues and assets are not material to us on a consolidated basis, we can be negatively impacted should there be a continued and sustained devaluation of local currencies relative to the U.S. dollar and/or a continued and sustained deterioration of economic conditions in these countries.

## Financial Results

### Net Revenue

The components of net revenue were as follows:

	For the Years Ended December 31,			Increase (Decrease)	
	2022	2021	2020	2022	2021
	(\$ in millions)				
Payment network	\$ 14,358	\$ 11,943	\$ 9,897	20%	21%
Value-added services and solutions	7,879	6,941	5,404	14%	28%
Net revenue	\$ 22,237	\$ 18,884	\$ 15,301	18%	23%

#### 2022

For the year ended December 31, 2022, net revenue increased 18% versus the comparable period in 2021. Adjusted net revenue increased 18%, or 23% on a currency-neutral basis. The increase in net revenue was attributable to both our payment network and our value-added services and solutions and included 1 percentage point of growth from acquisitions. Net revenue includes \$13,084 million of rebates and incentives provided to our customers, an increase of 19%, or 23% on a currency-neutral basis, in 2022 versus 2021.

Net revenue from our payment network increased 20%, or 26% on a currency-neutral basis, in 2022 versus 2021. The increase was primarily driven by growth in domestic and cross-border dollar volumes and an increase in the number of switched transactions, reflecting trends of growth in our key drivers. Net revenue from our payment network includes \$12,445 million of rebates and incentives provided to customers, which increased 19%, or 23% on a currency-neutral basis, in 2022 versus 2021, primarily due to an increase in our key drivers as well as new and renewed deals.

Net revenue from our value-added services and solutions increased 14%, or 18% on a currency-neutral basis, in 2022 versus 2021, which includes a 4 percentage point increase from acquisitions. The remaining increase was primarily driven by our cyber and intelligence and data and services solutions.

#### 2021

For the year ended December 31, 2021, net revenue increased 23%, or 22% on a currency neutral basis, versus the comparable period in 2020. The increase in net revenue was attributable to both our payment network and our value-added services and solutions and included 2 percentage points of growth from acquisitions. Net revenue includes \$10,961 million of rebates and incentives provided to our customers, an increase of 32%, or 31% on a currency-neutral basis, in 2021 versus 2020.

Net revenue from our payment network increased 21%, or 20% on a currency-neutral basis, in 2021 versus 2020. The increase was primarily driven by growth in domestic and cross-border dollar volumes and an increase in the number of switched transactions, reflecting trends of growth in our key drivers. Net revenue from our payment network include \$10,476 million of rebates and incentives provided to customers, which increased 31%, or 30% on a currency-neutral basis, in 2021 versus 2020, primarily due to an increase in our key drivers as well as new and renewed deals.

Net revenue from our value-added services and solutions increased 28%, or 27% on a currency-neutral basis, in 2021 versus 2020, which includes a 6 percentage point increase from acquisitions. The remaining increase was primarily driven by our cyber and intelligence and data and services solutions.

See Note 3 (Revenue) to the consolidated financial statements included in Part II, Item 8 for a further discussion of how we recognize revenue.

### Drivers of Change

The following table summarizes the drivers of change in net revenue:

	For the Years Ended December 31,									
	Operational		Acquisitions		Currency Impact <sup>3</sup>		Special Items <sup>4</sup>		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
Payment network	26% <sup>1</sup>	20% <sup>1</sup>	—%	—%	(6)%	1%	—%	—%	20 %	21 %
Value-added services and solutions	15% <sup>2</sup>	21% <sup>2</sup>	4%	6%	(4)%	1%	**	—%	14 %	28 %
Net revenue	22%	20%	1%	2%	(5)%	1%	—%	—%	18 %	23 %

Note: Table may not sum due to rounding

<sup>1</sup> Includes impacts from our key drivers and metrics, offset by rebates and incentives.

<sup>2</sup> Includes impacts from cyber and intelligence, data and services, processing and gateway, ACH batch and real-time account-based domestic and cross-border payments and solutions, opening banking and digital identity, offset by rebates and incentives.

<sup>3</sup> Includes the translational and transactional impact of currency and the related impact of our foreign exchange derivative contracts designated as cash flow hedging instruments.

<sup>4</sup> See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

No individual country, other than the United States, generated more than 10% of net revenue in any such period. A significant portion of our net revenue is concentrated among our five largest customers. In 2022, the net revenue from these customers was approximately \$4.7 billion, or 21%, of total net revenue. The loss of any of these customers or their significant card programs could adversely impact our revenue.

### Operating Expenses

Operating expenses increased 13% in 2022 versus the prior year. Adjusted operating expenses increased 11%, or 14% on a currency-neutral basis, versus the prior year, which includes a 4 percentage point increase from acquisitions. The remaining increase was primarily due to higher personnel costs, travel and meeting costs and unfavorable foreign exchange activity.

The components of operating expenses were as follows:

	For the Years Ended December 31,			Increase (Decrease)	
	2022	2021	2020	2022	2021
	(\$ in millions)				
General and administrative	\$ 8,078	\$ 7,087	\$ 5,910	14 %	20 %
Advertising and marketing	789	895	657	(12)%	36 %
Depreciation and amortization	750	726	580	3 %	25 %
Provision for litigation	356	94	73	**	**
Total operating expenses	9,973	8,802	7,220	13 %	22 %
Special Items <sup>1</sup>	(423)	(176)	(73)	**	**
Adjusted operating expenses (excluding Special Items <sup>1</sup> )	\$ 9,549	\$ 8,627	\$ 7,147	11 %	21 %

Note: Table may not sum due to rounding.

\*\* Not meaningful

<sup>1</sup> See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

The following table summarizes the drivers of changes in operating expenses:

	For the Years Ended December 31,									
	Operational		Acquisitions		Currency Impact <sup>1</sup>		Special Items <sup>2</sup>		Total	
	2022	2021	2022	2021	2022	2021	2022	2021	2022	2021
General and administrative	13%	11 %	4 %	6 %	(3)%	2 %	— %	1 %	14 %	20 %
Advertising and marketing	(9)%	35 %	1 %	1 %	(4)%	1 %	**	**	(12)%	36 %
Depreciation and amortization	(1)%	3 %	8 %	20 %	(4)%	2 %	**	**	3 %	25 %
Provision for litigation	**	**	**	**	**	**	**	**	**	**
Total operating expenses	10%	12 %	4 %	7 %	(3)%	2 %	3 %	1 %	13 %	22 %

Note: Table may not sum due to rounding.

\*\* Not meaningful

<sup>1</sup> Represents the translational and transactional impact of currency.

<sup>2</sup> See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

### General and Administrative

General and administrative expenses increased 14%, or 17% on a currency-neutral basis, in 2022 versus the prior year. Current year results include growth of 4 percentage points from acquisitions. The remaining increase was primarily due to higher personnel costs to support our continued investment in our strategic initiatives across payments, services and new networks, increased travel and meeting costs and balance sheet remeasurement losses due to unfavorable foreign exchange activity.

The components of general and administrative expenses were as follows:

	For the Years Ended December 31,			Increase (Decrease)	
	2022	2021	2020	2022	2021
	(\$ in millions)				
Personnel <sup>1</sup>	\$ 5,263	\$ 4,489	\$ 3,787	17%	19%
Professional fees	480	433	384	11%	13%
Data processing and telecommunications	926	898	756	3%	19%
Foreign exchange activity <sup>2</sup>	102	51	9	**	**
Other <sup>1,3</sup>	1,307	1,216	974	7%	25%
Total general and administrative expenses	\$ 8,078	\$ 7,087	\$ 5,910	14%	20%

Note: Table may not sum due to rounding.

\*\* Not meaningful

<sup>1</sup> For the year ended December 31, 2022, total general and administrative expenses includes a Special Item for Russia-related impacts of \$67 million, of which \$35 million is included within Personnel and \$32 million is included within Other. See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

<sup>2</sup> Foreign exchange activity includes the impact of remeasurement of assets and liabilities denominated in foreign currencies net of the impact of gains and losses on foreign exchange derivative contracts. See Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8 for further discussion.

<sup>3</sup> Includes a Special Item related to a foreign indirect tax matter of \$82 million for the year ended December 31, 2021. See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

### Advertising and Marketing

Advertising and marketing expenses decreased 12%, or 8% on a currency-neutral basis, in 2022 versus the prior year, primarily due to lower spending on marketing campaigns.

### Depreciation and Amortization

Depreciation and amortization expenses increased 3%, or 7% on a currency-neutral basis, in 2022 versus the prior year, due to the amortization of acquired intangible assets from acquisitions.



## Provision for Litigation

In 2022, 2021 and 2020, we recorded \$356 million, \$94 million and \$73 million, respectively, related to various legal proceedings. See "Non-GAAP Financial Information" in this section and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8 for further discussion.

## Other Income (Expense)

Other income (expense) was unfavorable \$757 million in 2022 versus the prior year, primarily due to net losses in the current year versus net gains in the prior year related to unrealized fair market value adjustments on marketable and nonmarketable equity securities and realized gains on sales of marketable equity securities in 2021. Adjusted other income (expense) was favorable \$26 million versus the prior year, primarily due to an increase in our investment income, partially offset by increased interest expense related to our 2022 debt issuances.

The components of other income (expense) were as follows:

	For the Years Ended December 31,			Increase (Decrease)	
	2022	2021	2020	2022	2021
	(\$ in millions)				
Investment income	\$ 61	\$ 11	\$ 24	**	(52)%
Gains (losses) on equity investments, net	(145)	645	30	**	**
Interest expense	(471)	(431)	(380)	9 %	13 %
Other income (expense), net	23	—	5	**	**
Total other income (expense)	(532)	225	(321)	**	**
(Gains) losses on equity investments <sup>1</sup>	145	(645)	(30)	**	**
Special Items <sup>1</sup>	—	6	—	**	**
Adjusted total other income (expense) <sup>1</sup>	\$ (387)	\$ (413)	\$ (351)	(6)%	18 %

Note: Table may not sum due to rounding.

\*\* Not meaningful

<sup>1</sup> See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

## Income Taxes

The effective income tax rates for the years ended December 31, 2022 and 2021 were 15.4% and 15.7%, respectively. The adjusted effective income tax rates for the years ended December 31, 2022 and 2021 were 15.7% and 15.4%, respectively. The effective income tax rate was lower in 2022 primarily due to a discrete tax benefit in the first quarter of 2022 related to final U.S. tax regulations published in the current year. These regulations resulted in a valuation allowance release of \$333 million associated with the U.S. foreign tax credit carryforward deferred tax asset. The regulations limit Mastercard's ability to generate foreign tax credits starting in 2022 for certain foreign taxes paid, resulting in additional U.S. tax expense. Additionally, a more favorable geographic mix of earnings in 2022 contributed to the lower effective tax rate. The lower effective income tax rate was partially offset by:

- the recognition of U.S. tax benefits in 2021 (the majority of which were discrete) resulting from a higher foreign derived intangible income deduction and greater utilization of foreign tax credits in the U.S.
- a discrete tax benefit in 2021 related to the remeasurement of the our net deferred tax asset in the U.K. due to an enacted tax rate change in 2021
- a discrete tax expense related to an unfavorable court ruling in 2022

The adjusted effective income tax rate was higher in 2022 primarily due to:

- the recognition of U.S. tax benefits in 2021 (the majority of which were discrete) resulting from a higher foreign derived intangible income deduction and greater utilization of foreign tax credits in the U.S.
- a discrete tax benefit in 2021 related to the remeasurement of the our net deferred tax asset in the U.K. due to an enacted tax rate change in 2021
- a discrete tax expense related to an unfavorable court ruling in 2022

All of the above impacts were partially offset by a discrete tax benefit in the first quarter of 2022 related to final U.S. tax regulations published in the current year. These regulations resulted in a valuation allowance release of \$333 million associated with the U.S. foreign tax credit carryforward deferred tax asset. The regulations limit Mastercard's ability to generate foreign tax credits starting in 2022 for certain foreign taxes paid, resulting in additional U.S. tax expense.

See Note 20 (Income Taxes) to the consolidated financial statements included in Part II, Item 8 for further discussion.

In August 2022, the U.S. enacted the Inflation Reduction Act (the "IRA"). The IRA includes a corporate alternative minimum tax of 15% on the adjusted financial statement income of corporations for years beginning after December 31, 2022, and an excise tax of 1% on the fair market value of annual net stock repurchases made after December 31, 2022. We continue to analyze the impacts of the IRA, however, it is not expected to have a material impact on our financial statements.

## Liquidity and Capital Resources

We rely on existing liquidity, cash generated from operations and access to capital to fund our global operations, credit and settlement exposure, capital expenditures, investments in our business and current and potential obligations. The following table summarizes the cash, cash equivalents, investments and credit available to us at December 31:

	2022		2021	
	(in billions)			
Cash, cash equivalents and investments <sup>1</sup>	\$	7.4	\$	7.9
Unused line of credit		8.0		6.0

<sup>1</sup> Investments include available-for-sale securities and held-to-maturity securities. This amount excludes restricted cash and restricted cash equivalents of \$2.2 billion and \$2.5 billion at December 31, 2022 and 2021, respectively.

We believe that our existing cash, cash equivalents and investment securities balances, our cash flow generating capabilities, and our access to capital resources are sufficient to satisfy our future operating cash needs, capital asset purchases, outstanding commitments and other liquidity requirements associated with our existing operations and potential obligations which include litigation provisions and credit and settlement exposure.

Our liquidity and access to capital could be negatively impacted by global credit market conditions. We guarantee the settlement of many of the transactions between our customers. Historically, payments under these guarantees have not been significant; however, historical trends may not be an indication of potential future losses. The risk of loss on these guarantees is specific to individual customers, but may also be driven by regional or global economic conditions, including, but not limited to the health of the financial institutions in a country or region. See Note 22 (Settlement and Other Risk Management) to the consolidated financial statements in Part II, Item 8 for a description of these guarantees.

Our liquidity and access to capital could also be negatively impacted by the outcome of any of the legal or regulatory proceedings to which we are a party. For additional discussion of these and other risks facing our business, see Part I, Item 1A - Risk Factors - Legal and Regulatory Risks and Note 21 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part II, Item 8.

## Cash Flow

The table below shows a summary of the cash flows from operating, investing and financing activities:

	For the Years Ended December 31,					
	2022		2021		2020	
	(in millions)					
Net cash provided by operating activities	\$	11,195	\$	9,463	\$	7,224
Net cash used in investing activities		(1,470)		(5,272)		(1,879)
Net cash used in financing activities		(10,328)		(6,555)		(2,152)

Net cash provided by operating activities increased \$1.7 billion in 2022 versus the prior year, primarily due to higher net income adjusted for non-cash items and timing of settlement with customers.

Net cash used in investing activities decreased \$3.8 billion in 2022 versus the prior year, primarily due to lower business acquisition activity in the current year.

Net cash used in financing activities increased \$3.8 billion in 2022 versus the prior year, primarily due to higher repurchases of our Class A common stock in the current year.

### Debt and Credit Availability

In February 2022, we issued €750 million (\$800 million as of December 31, 2022) principal amount of notes due February 2029 (the "2022 EUR Notes"). In July 2022, we entered into an unsecured INR22.7 billion (\$275 million as of December 31, 2022) term loan due July 2023 (the "INR Term Loan"). During 2022, €700 million (\$724 million as of the maturity date) of principal related to the 2015 Euro Notes matured and was paid. Our total debt outstanding was \$14.0 billion at December 31, 2022, with the earliest maturity of INR22.7 billion (\$275 million as of December 31, 2022) of principal occurring in July 2023.

As of December 31, 2022, we have a commercial paper program (the "Commercial Paper Program"), under which we are authorized to issue up to \$6 billion in outstanding notes, with maturities up to 397 days from the date of issuance. On January 27, 2023, we increased our Commercial Paper Program from \$6 billion to \$8 billion. In conjunction with the Commercial Paper Program, we have a committed unsecured \$8 billion revolving credit facility (the "Credit Facility") which now expires in November 2027.

Borrowings under the Commercial Paper Program and the Credit Facility are to be used to provide liquidity for general corporate purposes, including providing liquidity in the event of one or more settlement failures by our customers. In addition, we may borrow and repay amounts under these facilities for business continuity purposes. We had no borrowings outstanding under the Commercial Paper Program or the Credit Facility at December 31, 2022.

See Note 15 (Debt) to the consolidated financial statements included in Part II, Item 8 for further discussion on our debt, the Commercial Paper Program and the Credit Facility.

### Dividends and Share Repurchases

We have historically paid quarterly dividends on our outstanding Class A common stock and Class B common stock. Subject to legally available funds, we intend to continue to pay a quarterly cash dividend. The declaration and payment of future dividends is at the sole discretion of our Board of Directors after taking into account various factors, including our financial condition, operating results, available cash and current and anticipated cash needs.

The following table summarizes the annual, per share dividends paid in the years reflected:

	For the Years Ended December 31,		
	2022	2021	2020
	(in millions, except per share data)		
Cash dividend, per share	\$ 1.96	\$ 1.76	\$ 1.60
Cash dividends paid	\$ 1,903	\$ 1,741	\$ 1,605

On December 6, 2022, our Board of Directors declared a quarterly cash dividend of \$0.57 per share paid on February 9, 2023 to holders of record on January 9, 2023 of our Class A common stock and Class B common stock. The aggregate amount of this dividend was \$545 million.

On February 14, 2023, our Board of Directors declared a quarterly cash dividend of \$0.57 per share payable on May 9, 2023 to holders of record on April 7, 2023 of our Class A common stock and Class B common stock. The aggregate amount of this dividend is estimated to be \$543 million.

Repurchased shares of our common stock are considered treasury stock. In December 2022, November 2021 and December 2020, our Board of Directors approved share repurchase programs of our Class A common stock authorizing us to repurchase up to \$9.0 billion, \$8.0 billion and \$6.0 billion, respectively. The program approved in 2022 will become effective after completion of the share repurchase program approved in 2021. The timing and actual number of additional shares repurchased will depend on a variety of factors, including cash requirements to meet the operating needs of the business, legal requirements, as well as the share price and economic and market conditions. The following table summarizes our share repurchase authorizations and repurchase activity of our Class A common stock through December 31, 2022:

	(in millions, except per share data)
Remaining authorization at December 31, 2021	\$ 11,927
Dollar-value of shares repurchased in 2022	\$ 8,753
Remaining authorization at December 31, 2022	\$ 12,174
Shares repurchased in 2022	25.7
Average price paid per share in 2022	\$ 340.60

See Note 16 (Stockholders' Equity) to the consolidated financial statements included in Part II, Item 8 for further discussion.

## Critical Accounting Estimates

The application of GAAP requires us to make estimates and assumptions about certain items and future events that directly affect our reported financial condition. Our significant accounting policies, including recent accounting pronouncements, are described in Note 1 (Summary of Significant Accounting Policies) to the consolidated financial statements included in Part II, Item 8.

### Revenue Recognition - Rebates and Incentives

We enter into business agreements with certain customers that provide for rebates and incentives when customers meet certain volume thresholds or other incentives tied to customer performance. We consider various factors in estimating customer performance, including forecasted transactions, card issuance and card conversion volumes, expected payments and historical experience with that customer. Rebates and incentives are recorded within net revenue based on these estimates primarily when volume- and transaction- based revenues are recognized over the contractual term. Differences between actual results and our estimates are adjusted in the period the customer reports actual performance. If our customers' actual performance is not consistent with our estimates of their performance, net revenue may be materially different.

### Loss Contingencies

We are currently involved in various claims and legal proceedings. We regularly review the status of each significant matter and assess its potential financial exposure. If the potential loss from any claim or legal proceeding is considered probable and the amount can be reasonably estimated, we accrue a liability for the estimated loss. Significant judgment is required in both the determination of probability and whether an exposure is reasonably estimable. Our judgments are subjective based on the status of the legal or regulatory proceedings, the merits of our defenses and consultation with in-house and outside legal counsel. Because of uncertainties related to these matters, accruals are based only on the best information available at the time. As additional information becomes available, we reassess the potential liability related to pending claims and litigation and may revise our estimates. Due to the inherent uncertainties of the legal and regulatory process in the multiple jurisdictions in which we operate, our judgments may be materially different than the actual outcomes.

### Income Taxes

In calculating our effective income tax rate, estimates are required regarding the timing and amount of taxable and deductible items which will adjust the pretax income earned in various tax jurisdictions. Through our interpretation of local tax regulations, adjustments to pretax income for income earned in various tax jurisdictions are reflected within various tax filings. Although we believe that our estimates and judgments discussed herein are reasonable, actual results may be materially different than the estimated amounts.

We record a valuation allowance to reduce our deferred tax assets to the amount that is more likely than not to be realized. Significant judgment is required in determining the valuation allowance. In assessing the need for a valuation allowance, we consider all sources of taxable income, including projected future taxable income, reversing taxable temporary differences and ongoing tax planning strategies. If it is determined that we are able to realize deferred tax assets in excess of the net carrying value

or to the extent we are unable to realize a deferred tax asset, we would adjust the valuation allowance in the period in which such a determination is made, with a corresponding increase or decrease to earnings.

We record tax liabilities for uncertain tax positions taken, or expected to be taken, which may not be sustained or may only be partially sustained, upon examination by the relevant taxing authorities. We consider all relevant facts and current authorities in the tax law in assessing whether any benefit resulting from an uncertain tax position is more likely than not to be sustained and, if so, how current law impacts the amount reflected within these financial statements. If upon examination, we realize a tax benefit which is not fully sustained or is more favorably sustained, this would generally increase earnings in the period. In certain situations, we will have offsetting tax credits or taxes in other jurisdictions.

Deferred taxes are established on the estimated foreign exchange gains or losses for foreign earnings that are not considered permanently reinvested, which will be recognized through cumulative translation adjustments as incurred. Ultimately, the working capital requirements of foreign affiliates will determine the amount of cash to be remitted from respective jurisdictions.

## Business Combinations

We account for our business combinations using the acquisition method of accounting. The acquisition purchase price, including contingent consideration, if any, is allocated to the underlying identified, tangible and intangible assets, liabilities assumed and any non-controlling interest in the acquiree, based on their respective estimated fair values on the acquisition date. Any excess of purchase price over the fair value of net assets acquired, including identifiable intangible assets, is recorded as goodwill. The amounts and useful lives assigned to acquisition-related tangible and intangible assets impact the amount and timing of future amortization expense. We use various valuation techniques to determine fair value, primarily discounted cash flows analysis, relief-from-royalty and multi-period excess earnings for estimating the value of intangible assets. These valuation techniques include comparable company multiples, discount rates, growth projections and other assumptions of future business conditions. Determining the fair value of assets acquired, liabilities assumed, any non-controlling interest in the acquiree and the expected useful lives, requires management's judgment. The significance of management's estimates and assumptions is relative to the size of the acquisition. Our estimates are based upon assumptions believed to be reasonable, but which are inherently uncertain and unpredictable.

## Item 7A. Quantitative and qualitative disclosures about market risk

Market risk is the potential for economic losses to be incurred on market risk sensitive instruments arising from adverse changes in factors such as interest rates and foreign currency exchange rates. Our exposure to market risk from changes in interest rates and foreign exchange rates is limited. Management monitors risk exposures on an ongoing basis and establishes and oversees the implementation of policies governing our funding, investments and use of derivative financial instruments to manage these risks.

Foreign currency and interest rate exposures are managed through our risk management activities, which are discussed further in Note 23 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part II, Item 8.

### Foreign Exchange Risk

We enter into foreign exchange derivative contracts to manage currency exposure associated with anticipated receipts and disbursements occurring in a currency other than the functional currency of the entity. We may also enter into foreign currency derivative contracts to offset possible changes in value of assets and liabilities due to foreign exchange fluctuations. The objective of these activities is to reduce our exposure to transaction gains and losses resulting from fluctuations of foreign currencies against our functional currencies, principally the U.S. dollar and euro. The effect of a hypothetical 10% adverse change in the value of the functional currencies could result in a fair value loss of approximately \$94 million and \$70 million on our foreign exchange derivative contracts outstanding at December 31, 2022 and 2021, respectively, before considering the offsetting effect of the underlying hedged activity.

We are also subject to foreign exchange risk as part of our daily settlement activities. To manage this risk, we enter into short duration foreign exchange contracts based upon anticipated receipts and disbursements for the respective currency position. This risk is typically limited to a few days between when a payment transaction takes place and the subsequent settlement with our customers. The effect of a hypothetical 10% adverse change in the value of the functional currencies would not have a material impact to the fair value of our short duration foreign exchange derivative contracts outstanding at December 31, 2022 and 2021, respectively.

We are further exposed to foreign exchange rate risk related to translation of our net investment in foreign subsidiaries where the functional currency is different than our U.S. dollar reporting currency. To manage this risk, we may enter into foreign exchange derivative contracts to hedge a portion of our net investment in foreign subsidiaries. The effect of a hypothetical 10% adverse change in the value of the U.S. dollar could result in a fair value loss of approximately \$203 million and \$165 million on our foreign exchange derivative contracts designated as a net investment hedge at December 31, 2022 and 2021, respectively, before considering the offsetting effect of the underlying hedged activity.

## Interest Rate Risk

Our available-for-sale debt investments include fixed and variable rate securities that are sensitive to interest rate fluctuations. Our policy is to invest in high quality securities, while providing adequate liquidity and maintaining diversification to avoid significant exposure. A hypothetical 100 basis point adverse change in interest rates would not have a material impact to the fair value of our investments at December 31, 2022 and 2021.

We are also exposed to interest rate risk related to our fixed-rate debt. To manage this risk, we may enter into interest rate derivative contracts to hedge a portion of our fixed-rate debt that is exposed to changes in fair value attributable to changes in a benchmark interest rate. The effect of a hypothetical 100 basis point adverse change in interest rates could result in a fair value loss of approximately \$36 million and \$49 million on our interest rate derivative contracts designated as a fair value hedge of our fixed-rate debt at December 31, 2022 and 2021, respectively, before considering the offsetting effect of the underlying hedged activity.

## Item 8. Financial statements and supplementary data

### Mastercard Incorporated Index to consolidated financial statements

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## Management's report on internal control over financial reporting

The management of Mastercard Incorporated ("Mastercard") is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external reporting purposes in accordance with accounting principles generally accepted in the United States of America. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. As required by Section 404 of the Sarbanes-Oxley Act of 2002, management has assessed the effectiveness of Mastercard's internal control over financial reporting as of December 31, 2022. In making its assessment, management has utilized the criteria set forth in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). Management has concluded that, based on its assessment, Mastercard's internal control over financial reporting was effective as of December 31, 2022. The effectiveness of Mastercard's internal control over financial reporting as of December 31, 2022 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report which appears on the next page.



## Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Mastercard Incorporated

### *Opinions on the Financial Statements and Internal Control over Financial Reporting*

We have audited the accompanying consolidated balance sheet of Mastercard Incorporated and its subsidiaries (the “Company”) as of December 31, 2022 and 2021, and the related consolidated statements of operations, comprehensive income, changes in equity and cash flows for each of the three years in the period ended December 31, 2022, including the related notes (collectively referred to as the “consolidated financial statements”). We also have audited the Company’s internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2022 and 2021, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2022 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2022, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

### *Basis for Opinions*

The Company’s management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management’s Report on internal control over financial reporting. Our responsibility is to express opinions on the Company’s consolidated financial statements and on the Company’s internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

### *Definition and Limitations of Internal Control over Financial Reporting*

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

*Critical Audit Matters*

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

*Revenue Recognition - Rebates and Incentives*

As described in Notes 1 and 3 to the consolidated financial statements, the Company provides certain customers with rebates and incentives which are a portion of total net revenue of \$22.2 billion for the year ended December 31, 2022. The Company has business agreements with certain customers that provide for rebates and incentives within net revenue that could be either fixed or variable. Variable rebates and incentives are recorded primarily when volume- and transaction-based revenues are recognized over the contractual term. Variable rebates and incentives are calculated based upon estimated customer performance, such as volume thresholds, and the terms of the related business agreements. As disclosed by management, various factors are considered in estimating customer performance, including forecasted transactions, card issuance and card conversion volumes, expected payments and historical experience with that customer.

The principal considerations for our determination that performing procedures relating to rebates and incentives is a critical audit matter are (i) the significant judgment by management when developing estimates related to rebates and incentives based on customer performance; and (ii) a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating management's estimates related to customer performance, including the reasonableness of the various applicable factors considered by management in the estimate.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to rebates and incentives, including controls over evaluating estimated customer performance. These procedures also included, among others, evaluating the reasonableness of estimated customer performance for a sample of customer agreements, including (i) evaluating the agreements to identify whether all rebates and incentives are identified and recorded accurately; (ii) testing management's process for developing estimated customer performance, including evaluating the reasonableness of the various applicable factors considered by management; and (iii) evaluating estimated customer performance as compared to actual results in the period the customer reports actual performance.

/s/ PricewaterhouseCoopers LLP

New York, New York

February 14, 2023

We have served as the Company's auditor since 1989.

Consolidated Statement of Operations

	For the Years Ended December 31,		
	2022	2021	2020
	(in millions, except per share data)		
<b>Net Revenue</b>	<b>\$ 22,237</b>	<b>\$ 18,884</b>	<b>\$ 15,301</b>
<b>Operating Expenses:</b>			
General and administrative	8,078	7,087	5,910
Advertising and marketing	789	895	657
Depreciation and amortization	750	726	580
Provision for litigation	356	94	73
Total operating expenses	9,973	8,802	7,220
Operating income	12,264	10,082	8,081
<b>Other Income (Expense):</b>			
Investment income	61	11	24
Gains (losses) on equity investments, net	(145)	645	30
Interest expense	(471)	(431)	(380)
Other income (expense), net	23	—	5
Total other income (expense)	(532)	225	(321)
Income before income taxes	11,732	10,307	7,760
Income tax expense	1,802	1,620	1,349
<b>Net Income</b>	<b>\$ 9,930</b>	<b>\$ 8,687</b>	<b>\$ 6,411</b>
<b>Basic Earnings per Share</b>	<b>\$ 10.26</b>	<b>\$ 8.79</b>	<b>\$ 6.40</b>
Basic weighted-average shares outstanding	968	988	1,002
<b>Diluted Earnings per Share</b>	<b>\$ 10.22</b>	<b>\$ 8.76</b>	<b>\$ 6.37</b>
Diluted weighted-average shares outstanding	971	992	1,006

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statement of Comprehensive Income

	For the Years Ended December 31,		
	2022	2021	2020
	(in millions)		
<b>Net Income</b>	\$ 9,930	\$ 8,687	\$ 6,411
Other comprehensive income (loss):			
Foreign currency translation adjustments	(712)	(442)	345
Income tax effect	37	55	(59)
Foreign currency translation adjustments, net of income tax effect	(675)	(387)	286
Translation adjustments on net investment hedges	353	269	(177)
Income tax effect	(78)	(60)	40
Translation adjustments on net investment hedges, net of income tax effect	275	209	(137)
Cash flow hedges	1	6	(189)
Income tax effect	—	(1)	42
Reclassification adjustment for cash flow hedges	(10)	5	4
Income tax effect	2	(1)	(1)
Cash flow hedges, net of income tax effect	(7)	9	(144)
Defined benefit pension and other postretirement plans	(45)	57	(12)
Income tax effect	14	(14)	2
Reclassification adjustment for defined benefit pension and other postretirement plans	(1)	(2)	(1)
Income tax effect	—	—	—
Defined benefit pension and other postretirement plans, net of income tax effect	(32)	41	(11)
Investment securities available-for-sale	(6)	(1)	(1)
Income tax effect	1	—	—
Investment securities available-for-sale, net of income tax effect	(5)	(1)	(1)
Other comprehensive income (loss), net of income tax effect	(444)	(129)	(7)
<b>Comprehensive Income</b>	<b>\$ 9,486</b>	<b>\$ 8,558</b>	<b>\$ 6,404</b>

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Balance Sheet

	December 31,	
	2022	2021
	(in millions, except per share data)	
<b>Assets</b>		
Current assets:		
Cash and cash equivalents	\$ 7,008	\$ 7,421
Restricted cash for litigation settlement	589	586
Investments	400	473
Accounts receivable	3,425	3,006
Settlement assets	1,270	1,319
Restricted security deposits held for customers	1,568	1,873
Prepaid expenses and other current assets	2,346	2,271
<b>Total current assets</b>	<b>16,606</b>	<b>16,949</b>
Property, equipment and right-of-use assets, net	2,006	1,907
Deferred income taxes	1,151	486
Goodwill	7,522	7,662
Other intangible assets, net	3,859	3,671
Other assets	7,580	6,994
<b>Total Assets</b>	<b>\$ 38,724</b>	<b>\$ 37,669</b>
<b>Liabilities, Redeemable Non-controlling Interests and Equity</b>		
Current liabilities:		
Accounts payable	\$ 926	\$ 738
Settlement obligations	1,111	913
Restricted security deposits held for customers	1,568	1,873
Accrued litigation	1,094	840
Accrued expenses	7,801	6,642
Short-term debt	274	792
Other current liabilities	1,397	1,364
<b>Total current liabilities</b>	<b>14,171</b>	<b>13,162</b>
Long-term debt	13,749	13,109
Deferred income taxes	393	395
Other liabilities	4,034	3,591
<b>Total Liabilities</b>	<b>32,347</b>	<b>30,257</b>
<b>Commitments and Contingencies</b>		
<b>Redeemable Non-controlling Interests</b>	<b>21</b>	<b>29</b>
<b>Stockholders' Equity</b>		
Class A common stock, \$0.0001 par value; authorized 3,000 shares, 1,399 and 1,397 shares issued and 948 and 972 shares outstanding, respectively	—	—
Class B common stock, \$0.0001 par value; authorized 1,200 shares, 8 shares issued and outstanding	—	—
Additional paid-in-capital	5,298	5,061
Class A treasury stock, at cost, 451 and 425 shares, respectively	(51,354)	(42,588)
Retained earnings	53,607	45,648
Accumulated other comprehensive income (loss)	(1,253)	(809)
<b>Mastercard Incorporated Stockholders' Equity</b>	<b>6,298</b>	<b>7,312</b>
Non-controlling interests	58	71
<b>Total Equity</b>	<b>6,356</b>	<b>7,383</b>
<b>Total Liabilities, Redeemable Non-controlling Interests and Equity</b>	<b>\$ 38,724</b>	<b>\$ 37,669</b>

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statement of Changes in Equity

	Stockholders' Equity																	
	Common Stock		Additional Paid-In Capital	Class A Treasury Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Mastercard Incorporated Stockholders' Equity	Non- Controlling Interests	Total Equity									
	Class A	Class B																
	(in millions, except per share data)																	
Balance at December 31, 2019	\$	—	\$	—	\$	4,787	\$	(32,205)	\$	33,984	\$	(673)	\$	5,893	\$	24	\$	5,917
Net income		—		—		—		6,411		—		6,411		6,411		—		6,411
Activity related to non-controlling interests		—		—		—		—		—		—		—		73		73
Redeemable non-controlling interest adjustments		—		—		—		(7)		—		(7)		(7)		—		(7)
Other comprehensive income (loss)		—		—		—		—		(7)		(7)		(7)		—		(7)
Dividends		—		—		—		(1,641)		—		(1,641)		(1,641)		—		(1,641)
Purchases of treasury stock		—		—		—		(4,459)		—		(4,459)		(4,459)		—		(4,459)
Share-based payments		—		—		195		6		—		—		201		—		201
Balance at December 31, 2020		—		—		4,982		(36,658)		38,747		(680)		6,391		97		6,488
Net income		—		—		—		—		8,687		—		8,687		—		8,687
Activity related to non-controlling interests		—		—		—		—		—		—		—		(9)		(9)
Acquisition of non-controlling interest		—		—		(122)		—		—		—		(122)		(17)		(139)
Redeemable non-controlling interest adjustments		—		—		—		—		(5)		—		(5)		—		(5)
Other comprehensive income (loss)		—		—		—		—		—		(129)		(129)		—		(129)
Dividends		—		—		—		—		(1,781)		—		(1,781)		—		(1,781)
Purchases of treasury stock		—		—		—		(5,934)		—		—		(5,934)		—		(5,934)
Share-based payments		—		—		201		4		—		—		205		—		205
Balance at December 31, 2021		—		—		5,061		(42,588)		45,648		(809)		7,312		71		7,383

Consolidated Statement of Changes in Equity (Continued)

	Stockholders' Equity									Non-Controlling Interests	Total Equity
	Common Stock		Additional Paid-In Capital	Class A Treasury Stock	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Mastercard Incorporated Stockholders' Equity				
	Class A	Class B									
	(in millions, except per share data)										
Balance at December 31, 2021	—	—	5,061	(42,588)	45,648	(809)	7,312	71	7,383		
Net income	—	—	—	—	9,930	—	9,930	—	9,930		
Activity related to non-controlling interests	—	—	—	—	—	—	—	(13)	(13)		
Redeemable non-controlling interest adjustments	—	—	—	—	(3)	—	(3)	—	(3)		
Other comprehensive income (loss)	—	—	—	—	—	(444)	(444)	—	(444)		
Dividends	—	—	—	—	(1,968)	—	(1,968)	—	(1,968)		
Purchases of treasury stock	—	—	—	(8,773)	—	—	(8,773)	—	(8,773)		
Share-based payments	—	—	237	7	—	—	244	—	244		
Balance at December 31, 2022	\$ —	\$ —	\$ 5,298	\$ (51,354)	\$ 53,607	\$ (1,253)	\$ 6,298	\$ 58	\$ 6,356		

The accompanying notes are an integral part of these consolidated financial statements.

Consolidated Statement of Cash Flows

	For the Years Ended December 31,		
	2022	2021	2020
	(in millions)		
<b>Operating Activities</b>			
Net income	\$ 9,930	\$ 8,687	\$ 6,411
Adjustments to reconcile net income to net cash provided by operating activities:			
Amortization of customer and merchant incentives	1,586	1,371	1,072
Depreciation and amortization	750	726	580
(Gains) losses on equity investments, net	145	(645)	(30)
Share-based compensation	295	273	254
Deferred income taxes	(651)	(69)	73
Other	44	36	14
Changes in operating assets and liabilities:			
Accounts receivable	(481)	(397)	(86)
Income taxes receivable	12	(87)	(2)
Settlement assets	48	390	1,288
Prepaid expenses	(2,175)	(2,087)	(1,552)
Accrued litigation and legal settlements	240	(1)	(73)
Restricted security deposits held for customers	(305)	177	326
Accounts payable	190	100	26
Settlement obligations	201	(568)	(1,242)
Accrued expenses	1,188	1,355	(114)
Long-term taxes payable	(121)	(52)	(37)
Net change in other assets and liabilities	299	254	316
Net cash provided by operating activities	11,195	9,463	7,224
<b>Investing Activities</b>			
Purchases of investment securities available-for-sale	(267)	(389)	(220)
Purchases of investments held-to-maturity	(239)	(294)	(198)
Proceeds from sales of investment securities available-for-sale	54	83	361
Proceeds from maturities of investment securities available-for-sale	211	291	140
Proceeds from maturities of investments held-to-maturity	265	296	121
Purchases of property and equipment	(442)	(407)	(339)
Capitalized software	(655)	(407)	(369)
Purchases of equity investments	(88)	(228)	(214)
Proceeds from sales of equity investments	7	186	—
Acquisition of businesses, net of cash acquired	(313)	(4,436)	(989)
Settlement of interest rate derivative contracts	—	—	(175)
Other investing activities	(3)	33	3
Net cash used in investing activities	(1,470)	(5,272)	(1,879)
<b>Financing Activities</b>			
Purchases of treasury stock	(8,753)	(5,904)	(4,473)
Dividends paid	(1,903)	(1,741)	(1,605)
Proceeds from debt, net	1,123	2,024	3,959
Payment of debt	(724)	(650)	—
Acquisition of redeemable non-controlling interests	(4)	—	(49)
Acquisition of non-controlling interest	—	(133)	—
Contingent consideration paid	—	(64)	—
Tax withholdings related to share-based payments	(141)	(133)	(150)
Cash proceeds from exercise of stock options	90	61	97
Other financing activities	(16)	(15)	69
Net cash used in financing activities	(10,328)	(6,555)	(2,152)
Effect of exchange rate changes on cash, cash equivalents, restricted cash and restricted cash equivalents	(103)	(153)	257
Net increase (decrease) in cash, cash equivalents, restricted cash and restricted cash equivalents	(706)	(2,517)	3,450
Cash, cash equivalents, restricted cash and restricted cash equivalents - beginning of period	9,902	12,419	8,969
Cash, cash equivalents, restricted cash and restricted cash equivalents - end of period	\$ 9,196	\$ 9,902	\$ 12,419

The accompanying notes are an integral part of these consolidated financial statements.



## Notes to consolidated financial statements

### Note 1. Summary of Significant Accounting Policies

#### Organization

Mastercard Incorporated and its consolidated subsidiaries, including Mastercard International Incorporated ("Mastercard International" and together with Mastercard Incorporated, "Mastercard" or the "Company"), is a technology company in the global payments industry. Mastercard connects consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide by enabling electronic forms of payment instead of cash and checks and making those payment transactions safe, simple, smart and accessible. The Company makes payments easier and more efficient by providing a wide range of payment solutions and services through its family of well-known and trusted brands, including Mastercard®, Maestro® and Cirrus®. The Company operates a multi-rail payments network that provides choice and flexibility for consumers, merchants and Mastercard customers. Through its unique and proprietary core global payments network, the Company switches (authorizes, clears and settles) payment transactions. The Company has additional payment capabilities that include automated clearing house ("ACH") transactions (both batch and real-time account-based payments). Using these capabilities, the Company offers integrated payment products and services and captures new payment flows. The Company's value-added services include, among others, cyber and intelligence solutions to allow all parties to transact easily and with confidence, as well as other services that provide proprietary insights, drawing on Mastercard's principled use of secure consumer and merchant data. The Company's investments in new networks, such as open banking solutions and digital identity capabilities, support and strengthen our payments and services solutions. The Company's franchise model sets the standards and ground-rules for our core global payments network that balance value and risk across all stakeholders and allows for interoperability among them. The Company's payment solutions are designed to ensure safety and security for the global payments ecosystem.

Mastercard is not a financial institution. The Company does not issue cards, extend credit, determine or receive revenue from interest rates or other fees charged to account holders by issuers, or establish the rates charged by acquirers in connection with merchants' acceptance of the Company's products. In most cases, account holder relationships belong to, and are managed by, the Company's financial institution customers.

#### Significant Accounting Policies

*Consolidation and basis of presentation* - The consolidated financial statements include the accounts of Mastercard and its majority-owned and controlled entities, including any variable interest entities ("VIEs") for which the Company is the primary beneficiary. Investments in VIEs for which the Company is not considered the primary beneficiary are not consolidated and are accounted for as marketable, equity method or measurement alternative method investments and recorded in other assets on the consolidated balance sheet. At December 31, 2022 and 2021, there were no significant VIEs which required consolidation and the investments were not considered material to the consolidated financial statements. The Company consolidates acquisitions as of the date on which the Company has obtained a controlling financial interest. Intercompany transactions and balances have been eliminated in consolidation. During 2022, the Company updated its disaggregated net revenue presentation by category and geography to reflect the nature of its payment services and to align such information with the way in which management will prospectively view its categories of net revenue. Prior period amounts have been reclassified to conform to the 2022 presentation. The reclassification had no impact on previously reported total net revenue, operating income or net income. The Company follows accounting principles generally accepted in the United States of America ("GAAP").

Non-controlling interests represent the equity interest not owned by the Company and are recorded for consolidated entities in which the Company owns less than 100% of the interests. Changes in a parent's ownership interest while the parent retains its controlling interest are accounted for as equity transactions, and upon loss of control, retained ownership interests are remeasured at fair value, with any gain or loss recognized in earnings. For 2022, 2021 and 2020, net losses attributable to non-controlling interests were not material and, as a result, amounts are included on the consolidated statement of operations within other income (expense).

*Use of estimates* - The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting periods. Future events and their effects cannot be predicted with certainty; accordingly, accounting estimates require the exercise of judgment. These financial statements were prepared using information reasonably available as of December 31, 2022 and through the date of this Report. The accounting estimates used in the preparation of the Company's consolidated financial statements may change as new events occur, as more experience is acquired, as additional information is obtained and as the Company's operating environment changes. Actual results may differ from these estimates.

*Revenue recognition* - Revenue is recognized to depict the transfer of promised services to customers in an amount that reflects the consideration to which the Company expects to be entitled to in exchange for those services.

Revenue from the Company's payment network is primarily generated by charging fees to customers (issuers, acquirers and other market participants) for providing switching and other network-related services, as well as by charging fees to customers based primarily on the gross dollar volume of activity (GDV, which includes both domestic and cross-border volume) on the cards that carry the Company's brands. Revenue is recognized in the period in which the related transactions and volume occur. Certain volume-based revenue is determined from information reported by customers.

Revenue from the Company's value-added services and solutions is generated through either fixed or transaction-based fees. These services and solutions can be integrated and sold with the Company's payment network services or can be sold on a stand-alone basis. Revenue from the Company's value-added services and solutions is recognized in the period in which the related services and solutions are performed or transactions occur. For services provided to customers where delivery involves the use of a third-party, the Company recognizes revenue on a gross basis if it acts as the principal, controlling the service to the customer, or on a net basis if it acts as the agent, arranging for the service to be provided.

Mastercard has business agreements with certain customers that provide for rebates and incentives within net revenue that could be either fixed or variable. Fixed incentives typically represent payments to a customer directly related to entering into an agreement, which are generally capitalized and amortized over the life of the agreement on a straight-line basis. Variable rebates and incentives are recorded primarily when volume- and transaction-based revenues are recognized over the contractual term. Variable rebates and incentives are calculated based upon estimated customer performance, such as volume thresholds, and the terms of the related business agreements.

Contract assets include unbilled consideration typically resulting from executed data analytic and consulting services performed for customers in connection with Mastercard's payments network service arrangements. Collection for these services typically occurs over the contractual term. Contract assets are included in prepaid expenses and other current assets and other assets on the consolidated balance sheet.

The Company defers the recognition of revenue when consideration has been received prior to the satisfaction of performance obligations. As these performance obligations are satisfied, revenue is subsequently recognized. Deferred revenue primarily relates to certain value-added services and solutions. Deferred revenue is included in other current liabilities and other liabilities on the consolidated balance sheet.

*Business combinations* - The Company accounts for business combinations under the acquisition method of accounting. The Company measures the tangible and intangible identifiable assets acquired, liabilities assumed, any non-controlling interest in the acquiree and contingent consideration at fair value as of the acquisition date. Acquisition-related costs are expensed as incurred and are included in general and administrative expenses on the consolidated statement of operations. Any excess purchase price over the fair value of net assets acquired, including identifiable intangible assets, is recorded as goodwill. Measurement period adjustments, if any, to the preliminary estimated fair value of the intangibles assets as of the acquisition date are recorded in goodwill.

*Goodwill and other intangible assets* - Indefinite-lived intangible assets consist of goodwill and customer relationships. Goodwill represents the synergies expected to arise after the acquisition date and the assembled workforce. Finite-lived intangible assets consist of capitalized software costs, customer relationships and other intangible assets. Intangible assets with finite useful lives are amortized over their estimated useful lives, on a straight-line basis, which range from one to twenty years. Capitalized software includes internal and external costs incurred directly related to the design, development and testing phases of each capitalized software project, as well as technology acquired in business combinations.

The valuation methods for goodwill and other intangible assets acquired in business combinations involve assumptions concerning comparable company multiples, discount rates, growth projections and other assumptions of future business conditions. The Company uses various valuation techniques to determine the fair value of its intangible assets, primarily discounted cash flows analysis, relief-from-royalty and multi-period excess earnings. As the assumptions employed to measure these assets are based on management's judgment using internal and external data, these fair value determinations are classified in Level 3 of the Valuation Hierarchy (as defined in Fair value subsection below).

*Impairment of assets* - Goodwill and indefinite-lived intangible assets are not amortized but tested annually for impairment at the reporting unit level in the fourth quarter, or sooner when circumstances indicate an impairment may exist. The impairment evaluation for goodwill utilizes a qualitative assessment to determine whether it is more likely than not that goodwill is impaired. The qualitative factors may include, but are not limited to, macroeconomic conditions, industry and market conditions, operating environment, financial performance and other relevant events. If it is determined that it is more likely than not that goodwill is impaired, then the Company is required to perform a quantitative goodwill impairment test. If the fair value of the reporting unit

exceeds the carrying value, goodwill is not impaired. If the fair value of the reporting unit is less than its carrying value, then goodwill is impaired and the excess of the reporting unit's carrying value over the fair value is recognized as an impairment charge.

The impairment test for indefinite-lived intangible assets consists of a qualitative assessment to evaluate relevant events and circumstances that could affect the significant inputs used to determine the fair value of indefinite-lived intangible assets. If the qualitative assessment indicates that it is more likely than not that indefinite-lived intangible assets are impaired, then a quantitative assessment is required.

Long-lived assets, other than goodwill and indefinite-lived intangible assets, are tested for impairment whenever events or circumstances indicate that their carrying amount may not be recoverable. If the carrying value of the asset cannot be recovered from estimated future cash flows, undiscounted and without interest, the fair value of the asset is calculated using the present value of estimated net future cash flows. If the carrying amount of the asset exceeds its fair value, an impairment is recorded.

Impairment charges, if any, are recorded in general and administrative expenses on the consolidated statement of operations.

*Litigation* - The Company is a party to certain legal and regulatory proceedings with respect to a variety of matters. The Company evaluates the likelihood of an unfavorable outcome of all legal or regulatory proceedings to which it is a party and accrues a loss contingency when the loss is probable and reasonably estimable. Loss contingencies are recorded in provision for litigation on the consolidated statement of operations. These judgments are subjective based on the status of the legal or regulatory proceedings, the merits of its defenses and consultation with in-house and external legal counsel. Legal costs are expensed as incurred and recorded in general and administrative expenses on the consolidated statement of operations.

*Settlement and other risk management* - Mastercard's rules guarantee the settlement of many of the transactions between its customers. Settlement exposure is the outstanding settlement risk to customers under Mastercard's rules due to the difference in timing between the payment transaction date and subsequent settlement. For those transactions the Company guarantees, the guarantee will cover the full amount of the settlement obligation to the extent the settlement obligation is not otherwise satisfied. Settlement is generally completed on a same-day basis, however, in some circumstances, funds may not settle until subsequent business days creating a short-term settlement exposure.

The Company also enters into agreements in the ordinary course of business under which the Company agrees to indemnify third parties against damages, losses and expenses incurred in connection with legal and other proceedings arising from relationships or transactions with the Company. As the extent of the Company's obligations under these agreements depends entirely upon the occurrence of future events, the Company's potential future liability under these agreements is not determinable.

The Company accounts for each of its guarantees by recording the guarantee at its fair value at the inception or modification date through earnings.

*Income taxes* - The Company follows an asset and liability based approach in accounting for income taxes as required under GAAP. Deferred income tax assets and liabilities are recorded to reflect the tax consequences on future years of temporary differences between the financial statement carrying amounts and income tax bases of assets and liabilities. Deferred income taxes are displayed separately as noncurrent assets and liabilities on the consolidated balance sheet. Valuation allowances are provided against assets which are not more likely than not to be realized. The Company recognizes all material tax positions, including uncertain tax positions in which it is more likely than not that the position will be sustained based on its technical merits and if challenged by the relevant taxing authorities. At each balance sheet date, unresolved uncertain tax positions are reassessed to determine whether subsequent developments require a change in the amount of recognized tax benefit. The allowance for uncertain tax positions is recorded in other current and noncurrent liabilities on the consolidated balance sheet. The Company records interest expense related to income tax matters as interest expense on the consolidated statement of operations. The Company includes penalties related to income tax matters in the income tax provision.

*Cash and cash equivalents* - Cash and cash equivalents include certain investments with daily liquidity and with an original maturity of three months or less from the date of purchase. Cash equivalents are recorded at cost, which approximates fair value.

*Restricted cash* - The Company classifies cash and cash equivalents as restricted when it is unavailable for withdrawal or use in its general operations. The Company has the following types of restricted cash and restricted cash equivalents which are included in the reconciliation of beginning-of-period and end-of-period amounts shown on the consolidated statement of cash flows:

- *Restricted cash for litigation settlement* - The Company has restricted cash for litigation within a qualified settlement fund related to the settlement agreement for the U.S. merchant class litigation. The funds continue to be restricted for payments until the litigation matter is resolved.
- *Restricted security deposits held for customers* - The Company requires certain customers to enter into risk mitigation arrangements, including cash collateral and/or other forms of credit enhancement such as letters of credit and guarantees, for settlement of their transactions. Certain risk mitigation arrangements for settlement, such as standby letters of credit and bank

guarantees, are not recorded on the consolidated balance sheet. The Company also holds cash deposits and certificates of deposit from certain customers as collateral for settlement of their transactions, which are recorded as assets on the consolidated balance sheet. These assets are fully offset by corresponding liabilities included on the consolidated balance sheet. The amount of these security deposits and the duration held are determined by the risk profile of the individual customer and the Company's risk management practices.

- *Other restricted cash balances* - The Company has other restricted cash balances which include contractually restricted deposits, as well as cash balances that are restricted based on the Company's intention with regard to usage. These funds are classified on the consolidated balance sheet within prepaid expenses and other current assets and other assets.

*Fair value* - The Company measures certain financial assets and liabilities at fair value on a recurring basis by estimating the price that would be received upon the sale of an asset or paid to transfer a liability in an orderly transaction between market participants. The Company also measures certain financial and non-financial assets and liabilities at fair value on a nonrecurring basis, when a change in fair value or impairment is evidenced. The Company classifies these recurring and nonrecurring fair value measurements into a three-level hierarchy ("Valuation Hierarchy").

The Valuation Hierarchy is based upon the transparency of inputs to the valuation of an asset or liability as of the measurement date. A financial instrument's categorization within the Valuation Hierarchy is based upon the lowest level of input that is significant to the fair value measurement. The three levels of the Valuation Hierarchy are as follows:

- Level 1 - inputs to the valuation methodology are quoted prices (unadjusted) for identical assets or liabilities in active markets.
- Level 2 - inputs to the valuation methodology include quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets and liabilities in inactive markets and inputs that are observable for the asset or liability.
- Level 3 - inputs to the valuation methodology are unobservable and cannot be directly corroborated by observable market data.

The Company's financial assets and liabilities measured at fair value on a recurring basis include investment securities available for sale, marketable securities, derivative instruments and deferred compensation. The Company's financial assets and liabilities measured at fair value on a nonrecurring basis include nonmarketable securities, debt and other financial instruments. The Company's non-financial assets measured at fair value on a nonrecurring basis include property, equipment and right-of-use assets, goodwill and other intangible assets and are subject to fair value adjustments in certain circumstances, such as when there is evidence of impairment.

*Contingent consideration* - Certain business combinations involve the potential for future payment of consideration that is contingent upon the achievement of performance milestones. These liabilities are classified within Level 3 of the Valuation Hierarchy as the inputs used to measure fair value are unobservable and require management's judgment. The fair value of the contingent consideration at the acquisition date and subsequent periods is determined utilizing an income approach based on a Monte Carlo technique and is recorded in other current liabilities and other liabilities on the consolidated balance sheet. Changes to projected performance milestones of the acquired businesses could result in a higher or lower contingent consideration liability. The changes in fair value as a result of updated assumptions are recorded in general and administrative expenses on the consolidated statement of operations.

*Investment securities* - The Company classifies investments as available-for-sale or held-to-maturity at the date of acquisition.

- Available-for-sale debt securities:
  - Investments in debt securities that are available to meet the Company's current operational needs are classified as current assets and the securities that are not available for current operational needs are classified as noncurrent assets on the consolidated balance sheet.

The debt securities are carried at fair value, with unrealized gains and losses, net of tax, recorded as a separate component of accumulated other comprehensive income (loss) on the consolidated statement of comprehensive income. Net realized gains and losses on debt securities are recognized in investment income on the consolidated statement of operations. The specific identification method is used to determine realized gains and losses.

The Company evaluates its debt securities for impairment on an ongoing basis. When there has been a decline in fair value of a debt security below the amortized cost basis, the Company recognizes an impairment if: (1) it has the intent to sell the security; (2) it is more likely than not that it will be required to sell the security before recovery of the amortized cost basis; or (3) it does not expect to recover the entire amortized cost basis of the security. The credit loss component of the impairment is recognized as an allowance and recorded in other income (expense), net on the consolidated statement of operations while the non-credit related loss remains in accumulated other comprehensive income (loss) until realized from a sale or subsequent impairment.

- Held-to-maturity securities:

- Time deposits - The Company classifies time deposits with original maturities greater than three months as held-to-maturity. Held-to-maturity securities that mature within one year are classified as current assets within investments on the consolidated balance sheet while held-to-maturity securities with maturities of greater than one year are classified as other assets. Time deposits are carried at amortized cost on the consolidated balance sheet and are intended to be held until maturity.

*Equity investments* - The Company holds equity securities of publicly traded and privately held companies.

- Marketable equity securities - Marketable equity securities are strategic investments in publicly traded companies and are measured at fair value using quoted prices in their respective active markets with changes recorded through gains (losses) on equity investments, net on the consolidated statement of operations. Marketable equity securities that are expected to be held as part of the Company's long-term investment strategy are classified in other assets on the consolidated balance sheet.
- Nonmarketable equity investments - The Company's nonmarketable equity investments, which are reported in other assets on the consolidated balance sheet, include investments in privately held companies without readily determinable market values. The Company uses discounted cash flows and market assumptions to estimate the fair value of its nonmarketable equity investments when certain events or circumstances indicate that impairment may exist. The Company's nonmarketable equity investments are accounted for under the measurement alternative method or equity method.
  - Measurement alternative method - The Company accounts for investments in common stock or in-substance common stock under the measurement alternative method of accounting when it does not exercise significant influence, generally when it holds less than 20% ownership in the entity or when the interest in a limited partnership or limited liability company is less than 5% and the Company has no significant influence over the operations of the investee. Investments in companies that Mastercard does not control, but that are not in the form of common stock or in-substance common stock, are also accounted for under the measurement alternative method of accounting. Measurement alternative investments are measured at cost, less any impairment and adjusted for changes resulting from observable price changes in orderly transactions for identical or similar investments of the same issuer. Fair value adjustments, as well as impairments, are included in gains (losses) on equity investments, net on the consolidated statement of operations.
  - Equity method - The Company accounts for investments in common stock or in-substance common stock under the equity method of accounting when it has the ability to exercise significant influence over the operations of the investee, generally when it holds between 20% and 50% ownership in the entity. The excess of the cost over the underlying net equity of investments accounted for under the equity method is allocated to identifiable tangible and intangible assets and liabilities based on fair values at the date of acquisition. The amortization of the excess of the cost over the underlying net equity of investments and Mastercard's share of net earnings or losses of entities accounted for under the equity method of accounting is included in other income (expense), net on the consolidated statement of operations.

In addition, investments in flow-through entities such as limited partnerships and limited liability companies are also accounted for under the equity method when the Company has the ability to exercise significant influence over the operations of the investee, generally when the investment ownership percentage is equal to or greater than 5% of the outstanding ownership interest. The Company's share of net earnings or losses for these investments are included in gains (losses) on equity investments, net on the consolidated statement of operations.

*Derivative and hedging instruments* - The Company's derivative financial instruments are recorded as either assets or liabilities on the balance sheet and measured at fair value. The Company's foreign exchange and interest rate derivative contracts are included in Level 2 of the Valuation Hierarchy as the fair value of the contracts are based on inputs, which are observable based on broker quotes for the same or similar instruments. The Company does not enter into derivative instruments for trading or speculative purposes. For derivatives that are not designated as hedging instruments, realized and unrealized gains and losses from the change in fair value of the derivatives are recognized in current earnings.

The Company's derivatives that are designated as hedging instruments are required to meet established accounting criteria. In addition, an effectiveness assessment is required to demonstrate that the derivative is expected to be highly effective at offsetting changes in fair value or cash flows of the underlying exposure both at inception of the hedging relationship and on an ongoing basis. The method of assessing hedge effectiveness and measuring hedge results is formally documented at hedge inception and assessed at least quarterly throughout the designated hedge period.

The Company may designate derivative instruments as cash flow, fair value and net investment hedges, as follows:

- Cash flow hedges - Fair value adjustments to derivative instruments are recorded, net of tax, in other comprehensive income (loss) on the consolidated statement of comprehensive income. Any gains and losses deferred in accumulated other

comprehensive income (loss) are subsequently reclassified to the corresponding line item on the consolidated statement of operations when the underlying hedged transactions impact earnings. For hedges that are no longer deemed highly effective, hedge accounting is discontinued prospectively, and any gains and losses remaining in accumulated other comprehensive income (loss) are reclassified to earnings when the underlying forecasted transaction occurs. If it is probable that the forecasted transaction will no longer occur, the associated gains or losses in accumulated other comprehensive income (loss) are reclassified to the corresponding line item on the consolidated statement of operations in current earnings.

- **Fair value hedges** - Changes in the fair value of derivative instruments are recorded in current-period earnings, along with the gain or loss on the hedged asset or liability ("hedged item") that is attributable to the hedged risk. All amounts recognized in earnings are recorded to the corresponding line item on the consolidated statement of operations as the earnings effect of the hedged item. Hedged items are measured on the consolidated balance sheet at their carrying amount adjusted for any changes in fair value attributable to the hedged risk ("basis adjustments"). The Company defers the amortization of any basis adjustments until the end of the derivative instrument's term. If the hedge designation is discontinued for reasons other than derecognition of the hedged item, the remaining basis adjustments are amortized in accordance with applicable GAAP for the hedged item.
- **Net investment hedges** - The Company has numerous investments in foreign subsidiaries. The net assets of these subsidiaries are exposed to volatility in foreign currency exchange rates. The Company may use foreign currency denominated debt and/or derivative instruments to hedge a portion of its net investment in foreign operations against adverse movements in exchange rates. The effective portion of the foreign currency gains and losses related to the hedging instruments are reported in accumulated other comprehensive income (loss) on the consolidated balance sheet as a cumulative translation adjustment component of equity. Gains and losses in accumulated other comprehensive income (loss) are reclassified to earnings only if the Company sells or substantially liquidates its net investments in foreign subsidiaries. Amounts excluded from effectiveness testing of net investment hedges are recognized in earnings over the life of the hedging instrument. The Company evaluates the effectiveness of the net investment hedge each quarter.

**Settlement assets/obligations** - The Company operates systems for settling payment transactions among participants in the payments ecosystem in which the Company operates. Settlement is generally completed on a same-day basis, however, in some circumstances, funds may not settle until subsequent business days. In addition, the Company may receive or post funds in advance of transactions related to certain payment capabilities over its multi-rail payments network. The Company classifies the balances arising from these various activities as settlement assets and settlement obligations.

**Property, equipment and right-of-use assets** - Property and equipment are stated at cost less accumulated depreciation and amortization. Depreciation and amortization is computed using the straight-line method over the estimated useful lives of the assets. Depreciation of leasehold improvements and amortization of finance leases is included in depreciation and amortization expense on the consolidated statement of operations. Operating lease amortization expense is included in general and administrative expenses on the consolidated statement of operations.

The useful lives of the Company's assets are as follows:

Asset Category	Estimated Useful Life
Buildings	30 years
Building equipment	10 - 15 years
Furniture and fixtures and equipment	3 - 5 years
Leasehold improvements	Shorter of life of improvement or lease term
Right-of-use assets	Shorter of life of the asset or lease term

The Company determines if a contract is, or contains, a lease at contract inception. The Company's right-of-use ("ROU") assets are primarily related to operating leases for office space, automobiles and other equipment. Leases are included in property, equipment and right-of-use assets, other current liabilities and other liabilities on the consolidated balance sheet.

ROU assets represent the right to use an underlying asset for the lease term and lease liabilities represent the obligation to make lease payments arising from the lease. ROU assets and lease liabilities are recognized at the commencement date based on the present value of lease payments over the lease term. In addition, ROU assets include initial direct costs incurred by the lessee as well as any lease payments made at or before the commencement date, and exclude lease incentives. As most of the Company's leases do not provide an implicit rate, the Company uses its incremental borrowing rate based on the information available at the commencement date in determining the present value of lease payments. The incremental borrowing rate is determined by using the rate of interest that the Company would pay to borrow on a collateralized basis an amount equal to the lease payments for a similar term and in a similar economic environment. Lease terms include options to extend or terminate the lease when it is

reasonably certain that the Company will exercise that option. Leases with a term of one year or less are excluded from ROU assets and liabilities.

The Company excludes variable lease payments in measuring ROU assets and lease liabilities, other than those that depend on an index, a rate or are in-substance fixed payments. Lease and nonlease components are generally accounted for separately. When available, consideration is allocated to the separate lease and nonlease components in a lease contract on a relative standalone price basis using observable standalone prices.

*Pension and other postretirement plans* - The Company recognizes the funded status of its single-employer defined benefit pension plans and postretirement plans as assets or liabilities on its consolidated balance sheet and recognizes changes in the funded status in the year in which the changes occur through accumulated other comprehensive income (loss). The funded status is measured as the difference between the fair value of plan assets and the projected benefit obligation at December 31, the measurement date. Overfunded plans, if any, are aggregated and recorded in other assets, while underfunded plans are aggregated and recorded as accrued expenses and other liabilities on the consolidated balance sheet.

Net periodic pension and postretirement benefit cost/(income), excluding the service cost component, is recognized in other income (expense), net on the consolidated statement of operations. These costs include interest cost, expected return on plan assets, amortization of prior service costs or credits and gains or losses previously recognized as a component of accumulated other comprehensive income (loss). The service cost component is recognized in general and administrative expenses on the consolidated statement of operations.

*Defined contribution plans* - The Company's contributions to defined contribution plans are recorded as employees render service to the Company. The charge is recorded in general and administrative expenses on the consolidated statement of operations.

*Advertising and marketing* - Expenses incurred to promote Mastercard's brand, products and services are recognized in advertising and marketing on the consolidated statement of operations. The timing of recognition is dependent on the type of advertising or marketing expense.

*Foreign currency remeasurement and translation* - Monetary assets and liabilities in a currency other than the functional currency are remeasured using current exchange rates in effect at the balance sheet date. Non-monetary assets and liabilities are recorded at historical exchange rates. Revenue and expense accounts are remeasured at the weighted-average exchange rate for the period. Resulting exchange gains and losses related to remeasurement are included in general and administrative expenses on the consolidated statement of operations.

Where a non-U.S. currency is the functional currency, translation from that functional currency to U.S. dollars is performed for balance sheet accounts using current exchange rates in effect at the balance sheet date and for revenue and expense accounts using a weighted-average exchange rate for the period. Resulting translation adjustments are reported as a component of accumulated other comprehensive income (loss).

*Treasury stock* - The Company records the repurchase of shares of its common stock at cost on the trade date of the transaction. These shares are considered treasury stock, which is a reduction to stockholders' equity. Treasury stock is included in authorized and issued shares but excluded from outstanding shares.

*Share-based payments* - The Company measures share-based compensation expense at the grant date, based on the estimated fair value of the award and uses the straight-line method of attribution, net of estimated forfeitures, for expensing awards over the requisite employee service period. The Company estimates the fair value of its non-qualified stock option awards ("Options") using a Black-Scholes valuation model. The fair value of restricted stock units ("RSUs") is determined and fixed on the grant date based on the Company's stock price, adjusted for the exclusion of dividend equivalents. The Monte Carlo simulation valuation model is used to determine the grant date fair value of performance stock units ("PSUs") granted. All share-based compensation expenses are recorded in general and administrative expenses on the consolidated statement of operations.

*Redeemable non-controlling interests* - The Company's business combinations may include provisions allowing non-controlling equity owners the ability to require the Company to purchase additional interests in the subsidiary at their discretion. The interests are initially recorded at fair value and in subsequent reporting periods are accreted or adjusted to the estimated redemption value. The adjustments to the redemption value are recorded to retained earnings or additional paid-in capital on the consolidated balance sheet. The redeemable non-controlling interests are considered temporary and reported outside of permanent equity on the consolidated balance sheet at the greater of the carrying amount adjusted for the non-controlling interest's share of net income (loss) or its redemption value.

*Earnings per share* - The Company calculates basic earnings per share ("EPS") by dividing net income by the weighted-average number of common shares outstanding during the year. Diluted EPS is calculated by dividing net income by the weighted-average number of common shares outstanding during the year, adjusted for the potentially dilutive effect of stock options and unvested



stock units using the treasury stock method. The Company may be required to calculate EPS using the two-class method as a result of its redeemable non-controlling interests. If redemption value exceeds the fair value of the redeemable non-controlling interests, the excess would be a reduction to net income for the EPS calculation.

## Note 2. Acquisitions

In 2022, 2021 and 2020, the Company acquired several businesses for total consideration of \$0.3 billion, \$4.7 billion and \$1.1 billion, respectively, representing both cash and contingent consideration. These acquisitions align with the Company's strategy to grow, diversify and build the Company's business. Refer to Note 1 (Summary of Significant Accounting Policies) for the valuation techniques Mastercard utilizes to fair value the respective components of business combinations and contingent consideration. The residual value allocated to goodwill is primarily attributable to the synergies expected to arise after the acquisition date and a majority of the goodwill is not expected to be deductible for local tax purposes.

On April 1, 2022, Mastercard acquired a 100% equity interest in Dynamic Yield LTD ("Dynamic Yield") for cash consideration of \$325 million. The Company's preliminary estimate of net assets acquired has been recorded primarily as intangible assets, including goodwill of \$200 million that is primarily attributable to the synergies expected to arise after the acquisition date. None of the goodwill is expected to be deductible for local tax purposes.

On March 5, 2021, Mastercard acquired a majority of the Corporate Services business of Nets Denmark A/S ("Nets") for €3.0 billion (approximately \$3.6 billion as of the date of acquisition) in cash consideration based on a €2.85 billion enterprise value, adjusted for cash and net working capital at closing. The business acquired is primarily comprised of clearing and instant payment services and e-billing solutions. In relation to this acquisition, the net assets acquired primarily relate to intangible assets, including goodwill of \$2.1 billion, of which \$0.8 billion is expected to be deductible for local tax purposes. The goodwill arising from this acquisition is primarily attributable to the synergies expected to arise through geographic, product and customer expansion, the underlying technology and workforce acquired.

On June 9, 2021, Mastercard acquired a 100% equity interest in Ekata, Inc. ("Ekata") for cash consideration of \$861 million, based on an \$850 million enterprise value, adjusted for cash and net working capital at closing. The acquisition of Ekata is expected to broaden the Company's digital identity verification capabilities. The residual value allocated to goodwill is primarily attributable to the synergies expected to arise after the acquisition date and none of the goodwill is expected to be deductible for local tax purposes.

Mastercard acquired additional businesses in 2021 for consideration of \$272 million. These businesses were not considered individually material to Mastercard.

Among the businesses acquired in 2020, the largest acquisition relates to Finicity Corporation ("Finicity"), an open-banking provider, headquartered in Salt Lake City, Utah. On November 18, 2020, Mastercard acquired 100% equity interest in Finicity for cash consideration of \$809 million. In addition, the Finicity sellers earned additional contingent consideration of \$64 million upon meeting 2021 revenue targets in accordance with terms of the purchase agreement. The additional businesses acquired in 2020 were not considered individually material to Mastercard.



The Company is evaluating and finalizing the purchase accounting for Dynamic Yield. In 2022, the Company finalized the purchase accounting for businesses acquired during 2021. The estimated and final fair values of the purchase price allocations in aggregate, as of the acquisition dates, are noted below for the years ended December 31.

	2022	2021	2020
	(in millions)		
<b>Assets:</b>			
Cash and cash equivalents	\$ 11	\$ 253	\$ 6
Other current assets	7	41	14
Other intangible assets	125	2,071	237
Goodwill	200	2,842	844
Other assets	9	15	11
<b>Total assets</b>	<b>352</b>	<b>5,222</b>	<b>1,112</b>
<b>Liabilities:</b>			
Other current liabilities	15	112	15
Deferred income taxes	3	398	23
Other liabilities	9	12	8
<b>Total liabilities</b>	<b>27</b>	<b>522</b>	<b>46</b>
<b>Net assets acquired</b>	<b>\$ 325</b>	<b>\$ 4,700</b>	<b>\$ 1,066</b>

The following table summarizes the identified intangible assets acquired during the years ended December 31:

	2022	2021	2020	2022	2021	2020
	Acquisition Date Fair Value			Weighted-Average Useful Life		
	(in millions)			(in years)		
Developed technologies	\$ 100	\$ 433	\$ 122	7.8	11.7	6.3
Customer relationships	25	1,614	114	17.0	19.2	12.0
Other	—	24	1	—	7.1	1.0
<b>Other intangible assets</b>	<b>\$ 125</b>	<b>\$ 2,071</b>	<b>\$ 237</b>	<b>9.6</b>	<b>17.5</b>	<b>9.0</b>

Proforma information related to these acquisitions was not included because the impact on the Company's consolidated results of operations was not considered to be material.

### Note 3. Revenue

Mastercard is a payments network service provider that generates revenue from a wide range of payment solutions provided to customers. Revenue from contracts with customers is recognized when services are performed in an amount that reflects the consideration to which the Company expects to be entitled to in exchange for those services (i.e., fees charged to customers). The Company disaggregates its net revenue from contracts with customers into two categories: (i) payment network and (ii) value-added services and solutions. The Company's net revenue categories, payment network and value-added services and solutions, are recognized net of rebates and incentives provided to customers. Rebates and incentives can be either fixed or variable and are attributed to the category of revenue to which they pertain.

#### Payment network

Mastercard's payment network involves four participants in addition to the Company: account holders (a person or entity who holds a card or uses another device enabled for payment), issuers (the account holders' financial institutions), merchants and acquirers (the merchants' financial institutions). Revenue from the Company's payment network is primarily generated by charging fees to customers (issuers, acquirers and other market participants) for providing switching and other network-related services, as well as by charging fees to customers based primarily on the gross dollar volume of activity (GDV, which includes both domestic and cross-border volume) on the cards that carry the Company's brands. As a payments network service provider, the Company provides its

customers with continuous access to its global payments network and stands ready to provide transaction processing over the contractual term. Consideration is variable and is recognized as revenue in the period in which volumes and transactions occur.

### Value-added services and solutions

The Company generates revenues from value-added services and solutions through either fixed or transaction-based fees. These services and solutions can be integrated and sold with the Company's payment network services or can be sold on a stand-alone basis. These services and solutions primarily include cyber and intelligence, data and services, processing and gateway, ACH batch and real-time account-based payments and solutions, open banking and digital identity. Revenue from these value-added services and solutions is recognized in the period in which the related services and solutions are performed or transactions occur.

The Company's disaggregated net revenue by category and geographic region were as follows for the years ended December 31:

	2022	2021	2020
	(in millions)		
<b>Revenue by category:</b>			
Payment network	\$ 14,358	\$ 11,943	\$ 9,897
Value-added services and solutions	7,879	6,941	5,404
<b>Net revenue</b>	<b>\$ 22,237</b>	<b>\$ 18,884</b>	<b>\$ 15,301</b>
<b>Net revenue by geographic region:</b>			
North American Markets	\$ 7,809	\$ 6,667	\$ 5,473
International Markets	14,428	12,217	9,828
<b>Net revenue</b>	<b>\$ 22,237</b>	<b>\$ 18,884</b>	<b>\$ 15,301</b>

The Company's customers are generally billed weekly, however, the frequency is dependent upon the nature of the performance obligation and the underlying contractual terms. The Company does not typically offer extended payment terms to customers. The following table sets forth the location of the amounts recognized on the consolidated balance sheet from contracts with customers at December 31:

	2022	2021
	(in millions)	
Receivables from contracts with customers		
Accounts receivable	\$ 3,213	\$ 2,829
Contract assets		
Prepaid expenses and other current assets	118	134
Other assets	442	487
Deferred revenue <sup>1</sup>		
Other current liabilities	434	482
Other liabilities	248	180

<sup>1</sup> Revenue recognized from performance obligations satisfied in 2022 was \$1.6 billion.

The Company's remaining performance periods for its contracts with customers for its payments network services are typically long-term in nature (generally up to 10 years). As a payments network service provider, the Company provides its customers with continuous access to its global payments network and stands ready to provide transaction processing and related services over the contractual term. Consideration is variable as the Company generates volume- and transaction-based revenues from charging fees on its customers' current period activity. The Company has elected the optional exemption to not disclose the remaining performance obligations related to its payments network services. The Company also earns revenue from value-added services and solutions. At December 31, 2022, the estimated aggregate consideration allocated to unsatisfied performance obligations for these value-added services and solutions is \$1.4 billion, which is expected to be recognized through 2027. The estimated remaining performance obligations related to these revenues are subject to change and are affected by several factors, including modifications and terminations and are not expected to be material to any future annual period.

## Note 4. Earnings Per Share

The components of basic and diluted EPS for common shares for each of the years ended December 31 were as follows:

	2022	2021	2020
	(in millions, except per share data)		
<b>Numerator</b>			
Net income	\$ 9,930	\$ 8,687	\$ 6,411
<b>Denominator</b>			
Basic weighted-average shares outstanding	968	988	1,002
Dilutive stock options and stock units	3	4	4
Diluted weighted-average shares outstanding <sup>1</sup>	971	992	1,006
<b>Earnings per Share</b>			
Basic	\$ 10.26	\$ 8.79	\$ 6.40
Diluted	\$ 10.22	\$ 8.76	\$ 6.37

Note: Table may not sum due to rounding.

<sup>1</sup> For the years presented, the calculation of diluted EPS excluded a minimal amount of anti-dilutive share-based payment awards.

## Note 5. Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents

The following table provides a reconciliation of cash, cash equivalents, restricted cash and restricted cash equivalents reported on the consolidated balance sheet that total to the amounts shown on the consolidated statement of cash flows for the years ended December 31:

	2022	2021
	(in millions)	
Cash and cash equivalents	\$ 7,008	\$ 7,421
Restricted cash and restricted cash equivalents		
Restricted cash for litigation settlement	589	586
Restricted security deposits held for customers	1,568	1,873
Prepaid expenses and other current assets	31	22
Cash, cash equivalents, restricted cash and restricted cash equivalents	\$ 9,196	\$ 9,902

## Note 6. Supplemental Cash Flows

The following table includes supplemental cash flow disclosures for each of the years ended December 31:

	2022	2021	2020
	(in millions)		
Cash paid for income taxes, net of refunds	\$ 2,506	\$ 1,820	\$ 1,349
Cash paid for interest	414	399	311
Cash paid for legal settlements	114	98	149
Non-cash investing and financing activities			
Dividends declared but not yet paid	545	479	439
Accrued property, equipment and right-of-use assets	118	15	154
Fair value of assets acquired, net of cash acquired	341	4,969	1,106
Fair value of liabilities assumed related to acquisitions	27	522	46

## Note 7. Investments

The Company's investments on the consolidated balance sheet include both available-for-sale and held-to-maturity debt securities (see Investments section below). The Company classifies its investments in equity securities of publicly traded and privately held companies within other assets on the consolidated balance sheet (see Equity Investments section below).

### Investments

Investments on the consolidated balance sheet consisted of the following at December 31:

	2022	2021
	(in millions)	
Available-for-sale securities <sup>1</sup>	\$ 272	\$ 314
Held-to-maturity securities <sup>2</sup>	128	159
Total investments	\$ 400	\$ 473

<sup>1</sup> See Available-for-Sale Securities section below for further detail.

<sup>2</sup> The cost of these securities approximates fair value.

### Available-for-Sale Securities

The major classes of the Company's available-for-sale investment securities and their respective amortized cost basis and fair values at December 31 were as follows:

	2022				2021			
	Amortized Cost	Gross Unrealized Gain	Gross Unrealized Loss	Fair Value	Amortized Cost	Gross Unrealized Gain	Gross Unrealized Loss	Fair Value
	(in millions)							
Municipal securities	\$ —	\$ —	\$ —	\$ —	\$ 2	\$ —	\$ —	\$ 2
Government and agency securities	91	—	(2)	89	98	—	—	98
Corporate securities	187	—	(4)	183	214	—	—	214
Total	\$ 278	\$ —	\$ (6)	\$ 272	\$ 314	\$ —	\$ —	\$ 314

The Company's corporate and municipal available-for-sale investment securities held at December 31, 2022 and 2021, primarily carried a credit rating of A- or better. Corporate securities are comprised of commercial paper and corporate bonds. Municipal securities are comprised of state tax-exempt bonds and are diversified across states and sectors. Government and agency securities include U.S. government bonds, U.S. government sponsored agency bonds and foreign government bonds which are denominated in the national currency of the issuing country. Unrealized gains and losses are recorded as a separate component of other comprehensive income (loss) on the consolidated statement of comprehensive income.

The maturity distribution based on the contractual terms of the Company's available-for-sale investment securities at December 31, 2022 was as follows:

	Amortized Cost	Fair Value
	(in millions)	
Due within 1 year	\$ 158	\$ 157
Due after 1 year through 5 years	120	115
Total	\$ 278	\$ 272

Investment income on the consolidated statement of operations primarily consists of interest income generated from cash, cash equivalents, time deposits and available-for-sale investment securities, as well as realized gains and losses on the Company's investment securities. The realized gains and losses from the sales of available-for-sale securities for 2022, 2021 and 2020 were not material.

## Equity Investments

Included in other assets on the consolidated balance sheet are equity investments with readily determinable fair values ("Marketable securities") and equity investments without readily determinable fair values ("Nonmarketable securities"). Marketable securities are equity interests in publicly traded companies and are measured using unadjusted quoted prices in their respective active markets. Nonmarketable securities that do not qualify for equity method accounting are measured at cost, less any impairment and adjusted for changes resulting from observable price changes in orderly transactions for the identical or similar investments of the same issuer ("Measurement alternative").

The following table is a summary of the activity related to the Company's equity investments:

	Balance at December 31, 2021	Purchases	Sales	Changes in Fair Value <sup>1</sup>	Other <sup>2</sup>	Balance at December 31, 2022
	(in millions)					
Marketable securities	\$ 627	\$ —	\$ —	\$ (213)	\$ (15)	\$ 399
Nonmarketable securities	1,207	88	(7)	68	(25)	1,331
Total equity investments	\$ 1,834	\$ 88	\$ (7)	\$ (145)	\$ (40)	\$ 1,730

<sup>1</sup> Recorded in gains (losses) on equity investments, net on the consolidated statement of operations.

<sup>2</sup> Includes translational impact of currency.

The following table sets forth the components of the Company's Nonmarketable securities at December 31:

	2022	2021
	(in millions)	
Measurement alternative	\$ 1,087	\$ 952
Equity method	244	255
Total Nonmarketable securities	\$ 1,331	\$ 1,207

The following table summarizes the total carrying value of the Company's Measurement alternative investments, including cumulative unrealized gains and losses through December 31:

	2022 (in millions)
Initial cost basis	\$ 503
Cumulative adjustments <sup>1</sup> :	
Upward adjustments	620
Downward adjustments (including impairment)	(36)
Carrying amount, end of period	\$ 1,087

<sup>1</sup> Includes immaterial translational impact of currency.

The following table summarizes the unrealized gains and losses included in the carrying value of the Company's Measurement alternative investments and Marketable securities for the years ended December 31:

	2022	2021	2020
	(in millions)		
Measurement alternative investments:			
Upward adjustments	\$ 114	\$ 468	\$ 21
Downward adjustments (including impairment)	\$ (23)	\$ (2)	\$ (3)
Marketable securities:			
Unrealized gains (losses), net	\$ (213)	\$ 8	\$ (5)

## Note 8. Fair Value Measurements

The Company classifies its fair value measurements of financial instruments into a three-level hierarchy (the "Valuation Hierarchy"). Financial instruments are categorized for fair value measurement purposes as recurring or nonrecurring in nature.

## Financial Instruments - Recurring Measurements

The distribution of the Company's financial instruments measured at fair value on a recurring basis within the Valuation Hierarchy were as follows:

	December 31, 2022				December 31, 2021			
	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total
	(in millions)							
<b>Assets</b>								
<b>Investment securities available-for-sale <sup>1</sup>:</b>								
Municipal securities	\$ —	\$ —	\$ —	\$ —	\$ —	\$ 2	\$ —	\$ 2
Government and agency securities	35	54	—	89	35	63	—	98
Corporate securities	—	183	—	183	—	214	—	214
<b>Derivative instruments <sup>2</sup>:</b>								
Foreign exchange contracts	—	108	—	108	—	8	—	8
Interest rate contracts	—	—	—	—	—	6	—	6
<b>Marketable securities <sup>3</sup>:</b>								
Equity securities	399	—	—	399	627	—	—	627
<b>Deferred compensation plan <sup>4</sup>:</b>								
Deferred compensation assets	74	—	—	74	89	—	—	89
<b>Liabilities</b>								
<b>Derivative instruments <sup>2</sup>:</b>								
Foreign exchange contracts	\$ —	\$ 21	\$ —	\$ 21	\$ —	\$ 15	\$ —	\$ 15
Interest rate contracts	—	105	—	105	—	8	—	8
<b>Deferred compensation plan <sup>5</sup>:</b>								
Deferred compensation liabilities	73	—	—	73	89	—	—	89

<sup>1</sup> The Company's U.S. government securities are classified within Level 1 of the Valuation Hierarchy as the fair values are based on unadjusted quoted prices for identical assets in active markets. The fair value of the Company's available-for-sale municipal securities, non-U.S. government and agency securities and corporate securities are based on observable inputs such as quoted prices, benchmark yields and issuer spreads for similar assets in active markets and are therefore included in Level 2 of the Valuation Hierarchy.

<sup>2</sup> The Company's foreign exchange and interest rate derivative asset and liability contracts have been classified within Level 2 of the Valuation Hierarchy as the fair value is based on observable inputs such as broker quotes for similar derivative instruments. See Note 23 (Derivative and Hedging Instruments) for further details.

<sup>3</sup> The Company's Marketable securities are publicly held and classified within Level 1 of the Valuation Hierarchy as the fair values are based on unadjusted quoted prices in their respective active markets.

<sup>4</sup> The Company has a nonqualified deferred compensation plan where assets are invested primarily in mutual funds held in a rabbi trust, which is restricted for payments to participants of the plan. The Company has elected to use the fair value option for these mutual funds, which are measured using quoted prices of identical instruments in active markets and are included in prepaid expenses and other current assets on the consolidated balance sheet.

<sup>5</sup> The deferred compensation liabilities are measured at fair value based on the quoted prices of identical instruments to the investment vehicles selected by the participants. These are included in other liabilities on the consolidated balance sheet.

## Financial Instruments - Nonrecurring Measurements

### Nonmarketable Securities

The Company's Nonmarketable securities are recorded at fair value on a nonrecurring basis in periods after initial recognition under the equity method or measurement alternative method. Nonmarketable securities are classified within Level 3 of the Valuation Hierarchy due to the absence of quoted market prices, the inherent lack of liquidity and unobservable inputs used to measure fair value that require management's judgment. The Company uses discounted cash flows and market assumptions to estimate the fair value of its Nonmarketable securities when certain events or circumstances indicate that impairment may exist. See Note 7 (Investments) for further details.

### Debt

The Company estimates the fair value of its debt based on either market quotes or observable market data. Debt is classified as Level 2 of the Valuation Hierarchy as it is generally not traded in active markets. At December 31, 2022, the carrying value and fair value of debt was \$14.0 billion and \$12.7 billion, respectively. At December 31, 2021, the carrying value and fair value of debt was \$13.9 billion and \$15.3 billion, respectively. See Note 15 (Debt) for further details.

### Other Financial Instruments

Certain other financial instruments are carried on the consolidated balance sheet at cost or amortized cost basis, which approximates fair value due to their short-term, highly liquid nature. These instruments include cash and cash equivalents, restricted cash, time deposits, accounts receivable, settlement assets, restricted security deposits held for customers, accounts payable, settlement obligations and other accrued liabilities.

## Note 9. Prepaid Expenses and Other Assets

Prepaid expenses and other current assets consisted of the following at December 31:

	2022	2021
	(in millions)	
Customer and merchant incentives	\$ 1,392	\$ 1,326
Prepaid income taxes	34	92
Other	920	853
<b>Total prepaid expenses and other current assets</b>	<b>\$ 2,346</b>	<b>\$ 2,271</b>

Other assets consisted of the following at December 31:

	2022	2021
	(in millions)	
Customer and merchant incentives	\$ 4,578	\$ 3,798
Equity investments	1,730	1,834
Income taxes receivable	633	645
Other	639	717
<b>Total other assets</b>	<b>\$ 7,580</b>	<b>\$ 6,994</b>

Customer and merchant incentives represent payments made to customers and merchants under business agreements. Payments made directly related to entering into such an agreement are generally capitalized and amortized over the life of the agreement.

## Note 10. Property, Equipment and Right-of-Use Assets

Property, equipment and right-of-use assets consisted of the following at December 31:

	2022	2021
	(in millions)	
Building, building equipment and land	\$ 652	\$ 615
Equipment	1,711	1,456
Furniture and fixtures	96	96
Leasehold improvements	376	371
Operating lease right-of-use assets	1,075	983
Property, equipment and right-of-use assets	<b>3,910</b>	<b>3,521</b>
Less: Accumulated depreciation and amortization	(1,904)	(1,614)
Property, equipment and right-of-use assets, net	<b>\$ 2,006</b>	<b>\$ 1,907</b>

Depreciation and amortization expense for the above property, equipment and right-of-use assets was \$473 million, \$424 million and \$400 million for 2022, 2021 and 2020, respectively.

Operating lease ROU assets and operating lease liabilities are recorded on the consolidated balance sheet as follows at December 31:

	2022	2021
	(in millions)	
Balance sheet location		
Property, equipment and right-of-use assets, net	\$ 679	\$ 671
Other current liabilities	140	127
Other liabilities	630	645

Operating lease amortization expense was \$137 million, \$122 million and \$123 million for 2022, 2021 and 2020, respectively. As of December 31, 2022 and 2021, the weighted-average remaining lease term of operating leases was 8.4 years and 8.8 years and the weighted-average discount rate for operating leases was 2.5% and 2.6%, respectively.

The following table summarizes the maturity of the Company's operating lease liabilities at December 31, 2022 based on lease term:

	Operating Leases	
	(in millions)	
2023	\$	136
2024		135
2025		106
2026		91
2027		73
Thereafter		308
Total operating lease payments		<b>849</b>
Less: Interest		(79)
Present value of operating lease liabilities	<b>\$</b>	<b>770</b>



## Note 11. Goodwill

The changes in the carrying amount of goodwill for the years ended December 31 were as follows:

	2022	2021
	(in millions)	
Beginning balance	\$ 7,662	\$ 4,960
Additions	200	2,842
Foreign currency translation	(340)	(140)
Ending balance	<b>\$ 7,522</b>	<b>\$ 7,662</b>

The Company performed its annual qualitative assessment of goodwill during the fourth quarter of 2022 and determined a quantitative assessment was not necessary. The Company concluded that goodwill was not impaired and had no accumulated impairment losses at December 31, 2022.

## Note 12. Other Intangible Assets

The following table sets forth net intangible assets, other than goodwill, at December 31:

	2022			2021		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
	(in millions)					
Finite-lived intangible assets						
Capitalized software	\$ 3,448	\$ (1,402)	\$ 2,046	\$ 2,929	\$ (1,288)	\$ 1,641
Customer relationships	2,161	(521)	1,640	2,272	(429)	1,843
Other	54	(37)	17	59	(38)	21
Total	<b>5,663</b>	<b>(1,960)</b>	<b>3,703</b>	<b>5,260</b>	<b>(1,755)</b>	<b>3,505</b>
Indefinite-lived intangible assets						
Customer relationships	156	—	156	166	—	166
Total	<b>\$ 5,819</b>	<b>\$ (1,960)</b>	<b>\$ 3,859</b>	<b>\$ 5,426</b>	<b>\$ (1,755)</b>	<b>\$ 3,671</b>

The increase in the gross carrying amount of amortized intangible assets in 2022 was primarily related to software additions and the business acquired in 2022. See Note 2 (Acquisitions) for further details. Certain intangible assets are denominated in foreign currencies. As such, the change in intangible assets includes a component attributable to foreign currency translation. Based on the qualitative assessment performed in 2022, it was determined that the Company's indefinite-lived intangible assets were not impaired.

Amortization on the assets above amounted to \$414 million, \$424 million and \$303 million in 2022, 2021 and 2020, respectively. The following table sets forth the estimated future amortization expense on finite-lived intangible assets on the consolidated balance sheet at December 31, 2022 for the years ending December 31:

	(in millions)
2023	\$ 493
2024	468
2025	450
2026	455
2027 and thereafter	1,837
Total	<b>\$ 3,703</b>

### Note 13. Accrued Expenses and Accrued Litigation

Accrued expenses consisted of the following at December 31:

	2022	2021
	(in millions)	
Customer and merchant incentives	\$ 5,600	\$ 4,730
Personnel costs	1,322	980
Income and other taxes	279	337
Other	600	595
Total accrued expenses	\$ 7,801	\$ 6,642

Customer and merchant incentives represent amounts to be paid to customers under business agreements. As of December 31, 2022 and 2021, long-term customer and merchant incentives included in other liabilities were \$2,293 million and \$1,835 million, respectively.

As of December 31, 2022 and 2021, the Company's provision for litigation was \$1,094 million and \$840 million, respectively. These amounts are not included in the accrued expenses table above and are separately reported as accrued litigation on the consolidated balance sheet. See Note 21 (Legal and Regulatory Proceedings) for additional information regarding the Company's accrued litigation.

### Note 14. Pension, Postretirement and Savings Plans

The Company and certain of its subsidiaries maintain various pension and other postretirement plans that cover substantially all employees worldwide.

#### Defined Contribution Plans

The Company sponsors defined contribution retirement plans. The primary plan is the Mastercard Savings Plan, a 401(k) plan for substantially all of the Company's U.S. employees, which is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended. In addition, the Company has several defined contribution plans outside of the U.S. The Company's total expense for its defined contribution plans was \$204 million, \$175 million and \$150 million in 2022, 2021 and 2020, respectively.

#### Defined Benefit and Other Postretirement Plans

The Company sponsors pension and postretirement plans for certain non-U.S. employees (the "non-U.S. Plans") that cover various benefits specific to their country of employment. Additionally, Vocalink has a defined benefit pension plan (the "Vocalink Plan") which was permanently closed to new entrants and future accruals as of July 21, 2013, however, plan participants' obligations are adjusted for future salary changes. The term "Pension Plans" includes the non-U.S. Plans and the Vocalink Plan.

The Company maintains a postretirement plan providing health coverage and life insurance benefits for substantially all of its U.S. employees hired before July 1, 2007 (the "Postretirement Plan").

The Company uses a December 31 measurement date for the Pension Plans and its Postretirement Plan (collectively the “Plans”). The Company recognizes the funded status of its Plans, measured as the difference between the fair value of the plan assets and the projected benefit obligation, on the consolidated balance sheet. The following table sets forth the Plans’ funded status, key assumptions and amounts recognized on the Company’s consolidated balance sheet at December 31:

	Pension Plans		Postretirement Plan	
	2022	2021	2022	2021
	(\$ in millions)			
<b>Change in benefit obligation</b>				
Benefit obligation at beginning of year	\$ 596	\$ 604	\$ 62	\$ 70
Service cost	12	14	1	1
Interest cost	9	9	2	2
Actuarial (gain) loss	(156)	(6)	(16)	(7)
Benefits paid	(16)	(17)	(6)	(4)
Transfers in	5	4	—	—
Foreign currency translation	(58)	(12)	—	—
Benefit obligation at end of year	<b>392</b>	<b>596</b>	<b>43</b>	<b>62</b>
<b>Change in plan assets</b>				
Fair value of plan assets at beginning of year	<b>688</b>	<b>617</b>	—	—
Actual gain/(loss) on plan assets	(203)	63	—	—
Employer contributions	25	32	6	4
Benefits paid	(16)	(17)	(6)	(4)
Transfers in	5	4	—	—
Foreign currency translation	(69)	(11)	—	—
Fair value of plan assets at end of year	<b>430</b>	<b>688</b>	—	—
<b>Funded status at end of year</b>	<b>\$ 38</b>	<b>\$ 92</b>	<b>\$ (43)</b>	<b>\$ (62)</b>
<b>Amounts recognized on the consolidated balance sheet consist of:</b>				
Noncurrent assets	\$ 44	\$ 105	\$ —	\$ —
Other liabilities, short-term	—	—	(3)	(3)
Other liabilities, long-term	(6)	(13)	(40)	(59)
	<b>\$ 38</b>	<b>\$ 92</b>	<b>\$ (43)</b>	<b>\$ (62)</b>
<b>Accumulated other comprehensive income consists of:</b>				
Net actuarial (gain) loss	\$ 23	\$ (38)	\$ (14)	\$ 2
Prior service credit	1	1	(1)	(2)
Balance at end of year	<b>\$ 24</b>	<b>\$ (37)</b>	<b>\$ (15)</b>	<b>\$ —</b>
<b>Weighted-average assumptions used to determine end of year benefit obligations</b>				
Discount rate				
Non-U.S. Plans	3.80 %	0.90 %	*	*
Vocalink Plan	4.80 %	1.75 %	*	*
Postretirement Plan	*	*	5.50 %	2.75 %
Rate of compensation increase				
Non-U.S. Plans	1.50 %	1.50 %	*	*
Vocalink Plan	2.70 %	3.20 %	*	*
Postretirement Plan	*	*	3.00 %	3.00 %

\* Not applicable

At December 31, 2022 and 2021, the Company's aggregated Pension Plan assets exceeded the benefit obligations. For plans where the benefit obligations exceeded plan assets, the projected benefit obligation was \$8 million and \$116 million, the accumulated benefit obligation was \$6 million and \$115 million and plan assets were \$2 million and \$104 million at December 31, 2022 and 2021, respectively. Information on the Pension Plans were as follows as of December 31:

	2022	2021
	(in millions)	
Projected benefit obligation	\$ 392	\$ 596
Accumulated benefit obligation	388	592
Fair value of plan assets	430	688

For the year ended December 31, 2022, the Company's projected benefit obligation related to its Pension Plans decreased \$204 million, primarily attributable to actuarial gains related to higher discount rate assumptions. For the year ended December 31, 2021, the Company's projected benefit obligation related to its Pension Plans decreased \$8 million, primarily attributable to actuarial gains related to higher discount rate assumptions.

Components of net periodic benefit cost recorded in earnings were as follows for the Plans for each of the years ended December 31:

	Pension Plans			Postretirement Plan		
	2022	2021	2020	2022	2021	2020
	(in millions)					
Service cost	\$ 12	\$ 14	\$ 13	\$ 1	\$ 1	\$ 1
Interest cost	9	9	9	2	2	2
Expected return on plan assets	(14)	(19)	(18)	—	—	—
Amortization of actuarial loss	—	(1)	—	—	—	—
Amortization of prior service credit	—	—	—	(1)	(1)	(1)
Net periodic benefit cost	\$ 7	\$ 3	\$ 4	\$ 2	\$ 2	\$ 2

The service cost component is recognized in general and administrative expenses on the consolidated statement of operations. Net periodic benefit cost, excluding the service cost component, is recognized in other income (expense) on the consolidated statement of operations.

Other changes in plan assets and benefit obligations recognized in other comprehensive income for the years ended December 31 were as follows:

	Pension Plans			Postretirement Plan		
	2022	2021	2020	2022	2021	2020
	(in millions)					
Current year actuarial loss (gain)	\$ 61	\$ (50)	\$ 5	\$ (16)	\$ (7)	\$ 7
Amortization of prior service credit	\$ —	\$ —	\$ —	\$ 1	\$ 2	\$ 1
Total other comprehensive loss (income)	\$ 61	\$ (50)	\$ 5	\$ (15)	\$ (5)	\$ 8
Total net periodic benefit cost and other comprehensive loss (income)	\$ 68	\$ (47)	\$ 9	\$ (13)	\$ (3)	\$ 10

## Assumptions

Weighted-average assumptions used to determine net periodic benefit cost were as follows for the years ended December 31:

	Pension Plans			Postretirement Plan		
	2022	2021	2020	2022	2021	2020
Discount rate						
Non-U.S. Plans	0.90 %	0.70 %	0.70 %	*	*	*
Vocalink Plan	1.75 %	1.55 %	1.55 %	*	*	*
Postretirement Plan	*	*	*	2.75 %	2.50 %	3.25 %
Expected return on plan assets						
Non-U.S. Plans	1.60 %	1.60 %	1.60 %	*	*	*
Vocalink Plan	2.30 %	3.20 %	3.20 %	*	*	*
Rate of compensation increase						
Non-U.S. Plans	1.50 %	1.50 %	1.50 %	*	*	*
Vocalink Plan	3.20 %	2.75 %	2.75 %	*	*	*
Postretirement Plan	*	*	*	3.00 %	3.00 %	3.00 %

\* Not applicable

The Company's discount rate assumptions are based on yield curves derived from high quality corporate bonds, which are matched to the expected cash flows of each respective plan. The expected return on plan assets assumptions are derived using the current and expected asset allocations of the Pension Plans' assets and considering historical as well as expected returns on various classes of plan assets. The rates of compensation increases are determined by the Company, based upon its long-term plans for such increases.

The following additional assumptions were used at December 31 in accounting for the Postretirement Plan:

	2022	2021
Healthcare cost trend rate assumed for next year	6.50 %	6.75 %
Ultimate trend rate	5.00 %	5.00 %
Year that the rate reaches the ultimate trend rate	6	7

## Assets

Plan assets are managed taking into account the timing and amount of future benefit payments. The Vocalink Plan assets are managed with the following target asset allocations: cash and cash equivalents 14%, U.K. government securities 41%, fixed income 18%, equity 16% and real estate 11%. For the non-U.S. Plans, the assets are concentrated primarily in insurance contracts.

The Valuation Hierarchy of the Pension Plans' assets is determined using a consistent application of the categorization measurements for the Company's financial instruments. See Note 1 (Summary of Significant Accounting Policies) for additional information.

The following table sets forth by level within the Valuation Hierarchy, the Pension Plans' assets at fair value:

	December 31, 2022				December 31, 2021			
	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Fair Value	Quoted Prices in Active Markets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Fair Value
	(in millions)							
Cash and cash equivalents <sup>1</sup>	\$ 43	\$ —	\$ —	\$ 43	\$ 246	\$ —	\$ —	\$ 246
Mutual funds <sup>2</sup>	106	128	—	234	185	102	—	287
Insurance contracts <sup>3</sup>	—	114	—	114	—	104	—	104
Total	\$ 149	\$ 242	\$ —	\$ 391	\$ 431	\$ 206	\$ —	\$ 637
Investments at Net Asset Value ("NAV") <sup>4</sup>				39				51
Total Plan Assets				\$ 430				\$ 688

<sup>1</sup> Cash and cash equivalents are valued at quoted market prices, which represent the net asset value of the shares held by the Plans.

<sup>2</sup> Certain mutual funds are valued at quoted market prices, which represent the value of the shares held by the Plans, and are therefore included in Level 1. Certain other mutual funds are valued at unit values provided by investment managers, which are based on the fair value of the underlying investments utilizing public information, independent external valuation from third-party services or third-party advisors, and are therefore included in Level 2.

<sup>3</sup> Insurance contracts are valued at unit values provided by investment managers, which are based on the fair value of the underlying investments utilizing public information, independent external valuation from third-party services or third-party advisors.

<sup>4</sup> Investments at NAV include mutual funds (comprised primarily of credit investments) and other investments (comprised primarily of real estate investments) and are valued using the net asset value provided by the administrator as a practical expedient, and therefore these investments are not included in the valuation hierarchy. These investments have quarterly redemption frequencies with redemption notice periods ranging from 60 to 90 days.

The following table summarizes expected benefit payments (as of December 31, 2022) through 2032 for the Pension Plans and the Postretirement Plan, including those payments expected to be paid from the Company's general assets. Actual benefit payments may differ from expected benefit payments.

	Pension Plans	Postretirement Plan
	(in millions)	
2023	\$ 28	\$ 3
2024	20	3
2025	19	3
2026	18	3
2027	25	4
2028 - 2032	114	18

## Note 15. Debt

Debt consisted of the following at December 31:

		2022	2021	Effective Interest Rate
		(in millions)		
Senior Notes				
2022 EUR Notes <sup>1</sup>	1.000 % Senior Notes due February 2029	\$ 800	\$ —	1.138 %
2021 USD Notes	2.000 % Senior Notes due November 2031	750	750	2.112 %
	1.900 % Senior Notes due March 2031	600	600	1.981 %
	2.950 % Senior Notes due March 2051	700	700	3.013 %
2020 USD Notes	3.300 % Senior Notes due March 2027	1,000	1,000	3.420 %
	3.350 % Senior Notes due March 2030	1,500	1,500	3.430 %
	3.850 % Senior Notes due March 2050	1,500	1,500	3.896 %
2019 USD Notes	2.950 % Senior Notes due June 2029	1,000	1,000	3.030 %
	3.650 % Senior Notes due June 2049	1,000	1,000	3.689 %
	2.000 % Senior Notes due March 2025	750	750	2.147 %
2018 USD Notes	3.500 % Senior Notes due February 2028	500	500	3.598 %
	3.950 % Senior Notes due February 2048	500	500	3.990 %
2016 USD Notes	2.950 % Senior Notes due November 2026	750	750	3.044 %
	3.800 % Senior Notes due November 2046	600	600	3.893 %
2015 EUR Notes <sup>2</sup>	1.100 % Senior Notes due December 2022	—	793	1.265 %
	2.100 % Senior Notes due December 2027	854	906	2.189 %
	2.500 % Senior Notes due December 2030	160	170	2.562 %
2014 USD Notes	3.375 % Senior Notes due April 2024	1,000	1,000	3.484 %
Other Debt				
INR Term Loan <sup>3</sup>	8.640 % Term Loan due July 2023	275	—	9.090 %
		14,239	14,019	
Less: Unamortized discount and debt issuance costs		(111)	(116)	
Less: Cumulative hedge accounting fair value adjustments <sup>4</sup>		(105)	(2)	
Total debt outstanding		14,023	13,901	
Less: Short-term debt <sup>5</sup>		(274)	(792)	
Long-term debt		\$ 13,749	\$ 13,109	

<sup>1</sup> €750 million euro-denominated debt issued in February 2022.

<sup>2</sup> €1.650 billion euro-denominated debt issued in December 2015 of which €700 million (\$724 million) matured and was paid during 2022.

<sup>3</sup> INR22.7 billion Indian rupee-denominated loan issued in July 2022.

<sup>4</sup> In 2021, the Company entered into an interest rate swap which is accounted for as a fair value hedge. See Note 23 (Derivative and Hedging Instruments) for additional information.

<sup>5</sup> The INR Term Loan due July 2023 is classified as short-term debt on the consolidated balance sheet as of December 31, 2022. The 2015 EUR Notes due December 2022 are classified as short-term debt on the consolidated balance sheet as of December 31, 2021.

### Senior Notes

In February 2022, the Company issued €750 million (\$800 million as of December 31, 2022) principal amount of notes due February 2029 (the “2022 EUR Notes”). The net proceeds from the issuance of the 2022 EUR Notes, after deducting the original issue discount, underwriting discount and offering expenses, were €743 million (\$843 million as of the date of settlement).

In March 2021, the Company issued \$600 million principal amount of notes due March 2031 and \$700 million principal amount of notes due March 2051. In November 2021, the Company also issued \$750 million principal amount of notes due November 2031. The two issuances in 2021 are collectively referred to as the “2021 USD Notes”. The net proceeds from the issuance of the 2021 USD Notes, after deducting the original issue discount, underwriting discount and offering expenses, were \$2.024 billion.

In March 2020, the Company issued \$1 billion principal amount of notes due March 2027, \$1.5 billion principal amount of notes due March 2030 and \$1.5 billion principal amount of notes due March 2050 (collectively the “2020 USD Notes”). The net proceeds from the issuance of the 2020 USD Notes, after deducting the original issue discount, underwriting discount and offering expenses, were \$3.959 billion.

The Senior Notes described above are not subject to any financial covenants and may be redeemed in whole, or in part, at the Company’s option at any time for a specified make-whole amount. These notes are senior unsecured obligations and would rank equally with any future unsecured and unsubordinated indebtedness.

#### Indian Rupee (“INR”) Term Loan

In July 2022, the Company entered into an unsecured INR22.7 billion (\$275 million as of December 31, 2022) term loan due July 2023 (the “INR Term Loan”). The net proceeds of the INR Term Loan, after deducting issuance costs, were INR22.6 billion (\$284 million as of the date of settlement).

The Company obtained the INR Term Loan to serve as an economic hedge to offset possible changes in the value of INR-denominated monetary assets due to foreign exchange fluctuations. The INR Term Loan is not subject to any financial covenants and it may be repaid in whole at the Company’s option at any time for a specified make-whole amount.

Scheduled annual maturities of the principal portion of long-term debt outstanding at December 31, 2022 are summarized below.

	(in millions)
2023	\$ 275
2024	1,000
2025	750
2026	750
2027	1,854
Thereafter	9,610
<b>Total</b>	<b>\$ 14,239</b>

As of December 31, 2022, the Company has a commercial paper program (the “Commercial Paper Program”) under which the Company is authorized to issue up to \$6 billion in unsecured commercial paper notes with maturities of up to 397 days from the date of issuance. On January 27, 2023, the Company increased its Commercial Paper Program from \$6 billion to \$8 billion. The Commercial Paper Program is available in U.S. dollars.

In conjunction with the Commercial Paper Program, the Company entered into a committed five-year unsecured \$8 billion revolving credit facility (the “Credit Facility”) on November 10, 2022. The Credit Facility, which expires on November 10, 2027, amended and restated the Company’s prior \$6 billion credit facility which was set to expire on November 12, 2026. Borrowings under the Credit Facility are available in U.S. dollars and/or euros. The facility fee under the Credit Facility is determined according to the Company’s credit rating and is payable on the average daily commitment, regardless of usage, per annum. In addition to the facility fee, interest rates on borrowings under the Credit Facility would be based on prevailing market interest rates plus applicable margins that fluctuate based on the Company’s credit rating. The Credit Facility contains customary representations, warranties, affirmative and negative covenants, events of default and indemnification provisions. The Company was in compliance in all material respects with the covenants of the Credit Facility at December 31, 2022 and 2021.

Borrowings under the Commercial Paper Program and the Credit Facility are to be used to provide liquidity for general corporate purposes, including providing liquidity in the event of one or more settlement failures by the Company’s customers. The Company may borrow and repay amounts under the Commercial Paper Program and Credit Facility from time to time. The Company had no borrowings under the Credit Facility or the Commercial Paper Program at December 31, 2022 and 2021.



## Note 16. Stockholders' Equity

### Classes of Capital Stock

Mastercard's amended and restated certificate of incorporation authorizes the following classes of capital stock:

Class	Par Value Per Share	Authorized Shares (in millions)	Dividend and Voting Rights
A	\$0.0001	3,000	One vote per share Dividend rights
B	\$0.0001	1,200	Non-voting Dividend rights
Preferred	\$0.0001	300	No shares issued or outstanding at December 31, 2022 and 2021. Dividend and voting rights are to be determined by the Board of Directors of the Company upon issuance.

### Dividends

The Company declared a quarterly cash dividend on its Class A and Class B Common Stock during each of the four quarters of 2022, 2021 and 2020.

The Company declared total per share dividends on its Class A and Class B Common Stock during the years ended December 31 as summarized below:

	2022	2021	2020
	(in millions, except per share data)		
Dividends declared per share	\$ 2.04	\$ 1.81	\$ 1.64
Total dividends declared	\$ 1,968	\$ 1,781	\$ 1,641

### Ownership and Governance Structure

Equity ownership and voting power of the Company's shares were allocated as follows as of December 31:

	2022		2021	
	Equity Ownership	General Voting Power	Equity Ownership	General Voting Power
Public Investors (Class A stockholders)	88.5 %	89.3 %	88.4 %	89.2 %
Principal or Affiliate Customers (Class B stockholders)	0.8 %	— %	0.8 %	— %
Mastercard Foundation (Class A stockholders)	10.7 %	10.7 %	10.8 %	10.8 %

### Class B Common Stock Conversions

Shares of Class B common stock are convertible on a one-for-one basis into shares of Class A common stock. Entities eligible to hold Mastercard's Class B common stock are defined in the Company's amended and restated certificate of incorporation (generally the Company's principal or affiliate customers), and they are restricted from retaining ownership of shares of Class A common stock. Class B stockholders are required to subsequently sell or otherwise transfer any shares of Class A common stock received pursuant to such a conversion.

## Mastercard Foundation

In connection and simultaneously with its 2006 initial public offering (the “IPO”), the Company issued and donated 135 million newly authorized shares of Class A common stock to Mastercard Foundation. Mastercard Foundation is a private charitable foundation incorporated in Canada that is controlled by directors who are independent of the Company and its principal customers. Under the terms of the donation, Mastercard Foundation became able to resell the donated shares in May 2010 to the extent necessary to meet charitable disbursement requirements pursuant to Canadian tax law. Under such current law, Mastercard Foundation must annually disburse at least 3.5% of its assets not used in its charitable activities and administration in the previous eight quarters (“Disbursement Quota”). However, Mastercard Foundation obtained permission from the Canada Revenue Agency to, until December 31, 2021, meet its cumulative Disbursement Quota obligations over a period of time that, on average, demonstrated compliance with the requirement for such established time period. Currently, Mastercard Foundation may not sell or otherwise transfer its donated shares prior to May 1, 2027, except to the extent necessary to satisfy the Disbursement Quota. Based on that timing, Mastercard Foundation would be permitted to sell all of its remaining shares beginning May 1, 2027, subject to certain conditions.

## Common Stock Activity

The following table presents the changes in the Company’s outstanding Class A and Class B common stock for the years ended December 31:

	Outstanding Shares	
	Class A	Class B
	(in millions)	
Balance at December 31, 2019	996.0	11.2
Purchases of treasury stock	(14.3)	—
Share-based payments	2.3	—
Conversion of Class B to Class A common stock	2.9	(2.9)
Balance at December 31, 2020	<b>986.9</b>	<b>8.3</b>
Purchases of treasury stock	(16.5)	—
Share-based payments	1.2	—
Conversion of Class B to Class A common stock	0.5	(0.5)
Balance at December 31, 2021	<b>972.1</b>	<b>7.8</b>
Purchases of treasury stock	(25.7)	—
Share-based payments	1.8	—
Conversion of Class B to Class A common stock	0.2	(0.2)
Balance at December 31, 2022	<b>948.4</b>	<b>7.6</b>

The Company’s Board of Directors have approved share repurchase programs of its Class A Common Stock authorizing the Company to repurchase shares. The following table summarizes the Company’s share repurchase authorizations of its Class A common stock for the years ended December 31:

	2022	2021	2020
	(In millions, except per share data)		
Board authorization	\$ 9,000	\$ 8,000	\$ 6,000
Dollar-value of shares repurchased	\$ 8,753	\$ 5,904	\$ 4,473
Shares repurchased	25.7	16.5	14.3
Average price paid per share	\$ 340.60	\$ 356.82	\$ 312.68

As of December 31, 2022, the remaining authorization under the share repurchase programs approved by the Company’s Board of Directors was \$12.2 billion.

## Note 17. Accumulated Other Comprehensive Income (Loss)

The changes in the balances of each component of accumulated other comprehensive income (loss), net of tax, for the years ended December 31, 2022 and 2021 were as follows:

	December 31, 2021	Increase / (Decrease)	Reclassifications	December 31, 2022
	(in millions)			
Foreign currency translation adjustments <sup>1</sup>	\$ (739)	\$ (675)	\$ —	\$ (1,414)
Translation adjustments on net investment hedges <sup>2</sup>	34	275	—	309
Cash flow hedges				
Foreign exchange contracts <sup>3</sup>	4	1	(13)	(8)
Interest rate contracts	(128)	—	5	(123)
Defined benefit pension and other postretirement plans <sup>4</sup>	21	(31)	(1)	(11)
Investment securities available-for-sale	(1)	(5)	—	(6)
Accumulated other comprehensive income (loss)	\$ (809)	\$ (435)	\$ (9)	\$ (1,253)

	December 31, 2020	Increase / (Decrease)	Reclassifications	December 31, 2021
	(in millions)			
Foreign currency translation adjustments <sup>1</sup>	\$ (352)	\$ (387)	\$ —	\$ (739)
Translation adjustments on net investment hedges <sup>2</sup>	(175)	209	—	34
Cash flow hedges				
Foreign exchange contracts <sup>3</sup>	—	5	(1)	4
Interest rate contracts	(133)	—	5	(128)
Defined benefit pension and other postretirement plans <sup>4</sup>	(20)	43	(2)	21
Investment securities available-for-sale	—	(1)	—	(1)
Accumulated other comprehensive income (loss)	\$ (680)	\$ (131)	\$ 2	\$ (809)

<sup>1</sup> During 2022, the increase in the accumulated other comprehensive loss related to foreign currency translation adjustments was driven primarily by the depreciation of the euro and British pound against the U.S. dollar. During 2021, the increase in the accumulated other comprehensive loss related to foreign currency translation adjustments was driven primarily by the depreciation of the euro against the U.S. dollar.

<sup>2</sup> During 2022 and 2021, the increase in the accumulated other comprehensive income related to the net investment hedges was driven by the depreciation of the euro against the U.S. dollar. See Note 23 (Derivative and Hedging Instruments) for additional information.

<sup>3</sup> Certain foreign exchange derivative contracts are designated as cash flow hedging instruments. Gains and losses resulting from changes in the fair value of these contracts are deferred in accumulated other comprehensive income (loss) and subsequently reclassified to the consolidated statement of operations when the underlying hedged transactions impact earnings. See Note 23 (Derivative and Hedging Instruments) for additional information.

<sup>4</sup> During 2022, the increase in the accumulated other comprehensive loss related to the Plans was driven primarily by a net actuarial loss within the Pension Plans. During 2021, the increase in the accumulated other comprehensive income related to the Plans was driven primarily by a net actuarial gain within the Pension Plans. See Note 14 (Pension, Postretirement and Savings Plans) for additional information.

## Note 18. Share-Based Payments

In May 2006, the Company granted the following awards under the Mastercard Incorporated 2006 Long Term Incentive Plan, which was amended and restated as of June 22, 2021 (the "LTIP"). The LTIP is a stockholder-approved plan that permits the grant of various types of equity awards to employees. The Company has granted Options, RSUs and PSUs under the LTIP. The Company uses the straight-line method of attribution for expensing all equity awards. Compensation expense is recorded net of estimated forfeitures, with estimates adjusted as appropriate.

There are approximately 116 million shares of Class A common stock authorized for equity awards under the LTIP. Although the LTIP permits the issuance of shares of Class B common stock, no such shares have been authorized for issuance. Shares issued as a result of Option exercises and the conversions of RSUs and PSUs were funded primarily with the issuance of new shares of Class A common stock.

### Stock Options

Options expire ten years from the date of grant and vest ratably over three years for awards granted on or after March 1, 2022. For awards granted before March 1, 2022, they vest ratably over four years. For Options granted, a participant's unvested awards are forfeited upon termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, however, the participant retains all of their awards without providing additional service to the Company. Retirement eligibility is dependent upon age and years of service. Compensation expense is recognized over the vesting period as stated in the LTIP.

The fair value of each Option is estimated on the date of grant using a Black-Scholes option pricing model. The following table presents the weighted-average assumptions used in the valuation and the resulting weighted-average fair value per Option granted for the years ended December 31:

	2022	2021	2020
Risk-free rate of return	1.6 %	0.9 %	1.0 %
Expected term (in years)	6.00	6.00	6.00
Expected volatility	24.6 %	26.1 %	19.3 %
Expected dividend yield	0.6 %	0.5 %	0.6 %
Weighted-average fair value per Option granted	\$ 86.92	\$ 91.70	\$ 80.92

The risk-free rate of return was based on the U.S. Treasury yield curve in effect on the date of grant. The expected term and the expected volatility were based on historical Mastercard information. The expected dividend yields were based on the Company's expected annual dividend rate on the date of grant.

The following table summarizes the Company's option activity for the year ended December 31, 2022:

	Options (in millions)	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Term (in years)	Aggregate Intrinsic Value (in millions)
Outstanding at January 1, 2022	5.4	\$ 152		
Granted	0.3	\$ 344		
Exercised	(0.9)	\$ 100		
Forfeited	(0.1)	\$ 308		
Expired	—	\$ 363		
Outstanding at December 31, 2022	4.7	\$ 173	4.9	\$ 828
Exercisable at December 31, 2022	3.9	\$ 143	4.3	\$ 788
Options vested and expected to vest at December 31, 2022	4.7	\$ 173	4.9	\$ 827

As of December 31, 2022, there was \$19 million of total unrecognized compensation cost related to non-vested Options. The cost is expected to be recognized over a weighted-average period of 1.7 years.

## Restricted Stock Units

For RSUs granted on or after March 1, 2022, the awards generally vest ratably over three years. For RSUs granted on or after March 1, 2020 but before March 1, 2022, the awards generally vest ratably over four years. A participant's unvested awards are forfeited upon termination of employment. In the event of termination due to job elimination (as defined by the Company), however, a participant will retain a pro-rata portion of the unvested awards for services performed through the date of termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, the participant retains all of their awards without providing additional service to the Company. Compensation expense is recognized over the shorter of the vesting periods stated in the LTIP or the date the individual becomes eligible to retire but not less than seven months.

The following table summarizes the Company's RSU activity for the year ended December 31, 2022:

	Units (in millions)	Weighted- Average Grant- Date Fair Value	Aggregate Intrinsic Value (in millions)
Outstanding at January 1, 2022	2.2	\$ 291	
Granted	1.0	\$ 340	
Converted	(1.2)	\$ 258	
Forfeited	(0.2)	\$ 332	
Outstanding at December 31, 2022	<b>1.8</b>	<b>\$ 335</b>	<b>\$ 641</b>
RSUs expected to vest at December 31, 2022	<b>1.8</b>	<b>\$ 335</b>	<b>\$ 615</b>

The fair value of each RSU is the closing stock price on the New York Stock Exchange of the Company's Class A common stock on the date of grant, adjusted for the exclusion of dividend equivalents. Upon vesting, a portion of the RSU award may be withheld to satisfy the minimum statutory withholding taxes. The remaining RSUs will be settled in shares of the Company's Class A common stock after the vesting period. As of December 31, 2022, there was \$334 million of total unrecognized compensation cost related to non-vested RSUs. The cost is expected to be recognized over a weighted-average period of 2.0 years.

## Performance Stock Units

PSUs vest after three years and are subject to a mandatory one-year post-vest hold, during which they are eligible for dividend equivalents. A participant's unvested awards are forfeited upon termination of employment. In the event of termination due to job elimination (as defined by the Company), however, a participant will retain a pro-rata portion of the unvested awards for services performed through the date of termination. In the event a participant terminates employment due to disability or retirement more than seven months after receiving the award, the participant retains all of their awards without providing additional service to the Company.

The following table summarizes the Company's PSU activity for the year ended December 31, 2022:

	Units (in millions)	Weighted- Average Grant-Date Fair Value	Aggregate Intrinsic Value (in millions)
Outstanding at January 1, 2022	0.4	\$ 334	
Granted	0.2	\$ 335	
Converted	—	\$ —	
Other	(0.2)	\$ 291	
Outstanding at December 31, 2022	<b>0.4</b>	<b>\$ 352</b>	<b>\$ 128</b>
PSUs expected to vest at December 31, 2022	<b>0.4</b>	<b>\$ 352</b>	<b>\$ 128</b>

Since 2013, PSUs containing performance and market conditions have been issued. Performance measures used to determine the actual number of shares that vest after three years include net revenue growth, EPS growth and relative total shareholder return ("TSR"). Relative TSR is considered a market condition, while net revenue and EPS growth are considered performance conditions. The Monte Carlo simulation valuation model is used to determine the grant-date fair value.

Compensation expense for PSUs is recognized over the requisite service period, or the date the individual becomes eligible to retire but not less than seven months, if it is probable that the performance target will be achieved and subsequently adjusted if the probability assessment changes. During the year ended December 31, 2020, performance targets related to PSU awards granted in 2018 ("2018 PSU Awards") were adjusted to exclude certain pandemic-related financial impacts deemed outside of the Company's control. The adjustment during the year ended December 31, 2020 required the Company to apply modification accounting to the 2018 PSU Awards which had an immaterial impact on compensation expense. As of December 31, 2022, there was \$29 million of total unrecognized compensation cost related to non-vested PSUs. The cost is expected to be recognized over a weighted-average period of 1.7 years.

#### Additional Information

The following table includes additional share-based payment information for each of the years ended December 31:

	2022	2021	2020
	(in millions, except weighted-average fair value)		
Share-based compensation expense: Options, RSUs and PSUs	\$ 295	\$ 273	\$ 254
Income tax benefit recognized for equity awards	61	57	53
Income tax benefit realized related to Options exercised	49	36	68
<i>Options:</i>			
Total intrinsic value of Options exercised	231	169	317
<i>RSUs:</i>			
Weighted-average grant-date fair value of awards granted	340	358	288
Total intrinsic value of RSUs converted into shares of Class A common stock	420	360	330
<i>PSUs:</i>			
Weighted-average grant-date fair value of awards granted	335	385	291
Total intrinsic value of PSUs converted into shares of Class A common stock	—	32	92

#### Note 19. Commitments

At December 31, 2022, the Company had the following future minimum payments due under noncancelable agreements, primarily related to sponsorships to promote the Mastercard brand and licensing arrangements. The Company has accrued \$12 million of these future payments as of December 31, 2022.

	(in millions)
2023	\$ 428
2024	317
2025	222
2026	106
2027	85
Thereafter	47
Total	\$ 1,205

## Note 20. Income Taxes

### Components of Income and Income Tax Expense

The domestic and foreign components of income before income taxes for the years ended December 31 are as follows:

	2022	2021	2020
	(in millions)		
United States	\$ 4,228	\$ 4,261	\$ 3,304
Foreign	7,504	6,046	4,456
Income before income taxes	<b>\$ 11,732</b>	<b>\$ 10,307</b>	<b>\$ 7,760</b>

The total income tax provision for the years ended December 31 is comprised of the following components:

	2022	2021	2020
	(in millions)		
Current			
Federal	\$ 1,024	\$ 663	\$ 439
State and local	133	51	56
Foreign	1,296	976	781
	<b>2,453</b>	<b>1,690</b>	<b>1,276</b>
Deferred			
Federal	(661)	(31)	106
State and local	(40)	(4)	9
Foreign	50	(35)	(42)
	<b>(651)</b>	<b>(70)</b>	<b>73</b>
Income tax expense	<b>\$ 1,802</b>	<b>\$ 1,620</b>	<b>\$ 1,349</b>

### Effective Income Tax Rate

A reconciliation of the effective income tax rate to the U.S. federal statutory income tax rate for the years ended December 31, is as follows:

	2022		2021		2020	
	Amount	Percent	Amount	Percent	Amount	Percent
	(\$ in millions)					
Income before income taxes	\$ 11,732		\$ 10,307		\$ 7,760	
Federal statutory tax	2,464	21.0 %	2,164	21.0 %	1,630	21.0 %
State tax effect, net of federal benefit	72	0.6 %	60	0.6 %	57	0.7 %
Foreign tax effect	(347)	(3.0)%	(283)	(2.7)%	(193)	(2.5)%
Valuation allowance - U.S. foreign tax credit	(333)	(2.8)%	—	— %	—	— %
U.S. tax expense on foreign operations	111	0.9 %	63	0.6 %	47	0.6 %
Foreign-derived intangible income deduction	(129)	(1.1)%	(69)	(0.7)%	(46)	(0.6)%
U.S. tax benefits <sup>1</sup>	—	— %	(132)	(1.3)%	—	— %
Windfall benefit	(68)	(0.6)%	(67)	(0.7)%	(119)	(1.5)%
Other, net	32	0.3 %	(116)	(1.1)%	(27)	(0.3)%
Income tax expense	<b>\$ 1,802</b>	<b>15.4 %</b>	<b>\$ 1,620</b>	<b>15.7 %</b>	<b>\$ 1,349</b>	<b>17.4 %</b>

Note: Table may not sum due to rounding.

The effective income tax rates for the years ended December 31, 2022, 2021 and 2020 were 15.4%, 15.7% and 17.4%, respectively. The effective income tax rate for 2022 was lower than the effective income tax rate for 2021, primarily due to a discrete tax benefit in the first quarter of 2022 related to final U.S. tax regulations published in the current year. These regulations resulted in a valuation allowance release of \$333 million associated with the U.S. foreign tax credit carryforward deferred tax asset. The

regulations limit the Company's ability to generate foreign tax credits starting in 2022 for certain foreign taxes paid, resulting in additional U.S. tax expense. Additionally, a more favorable geographic mix of earnings in 2022 contributed to the lower effective tax rate. The lower effective income tax rate in 2022 was partially offset by:

- the recognition of U.S. tax benefits in 2021 (the majority of which were discrete) resulting from a higher foreign derived intangible income deduction and greater utilization of foreign tax credits in the U.S.
- a discrete tax benefit in 2021 related to the remeasurement of the Company's net deferred tax asset in the U.K. due to an enacted tax rate change in 2021
- a discrete tax expense related to an unfavorable court ruling in 2022

The effective income tax rate for 2021 was lower than the effective income tax rate for 2020, primarily due to the recognition of U.S. tax benefits (the majority of which were discrete) resulting from a higher foreign derived intangible income deduction and greater utilization of foreign tax credits in the U.S. In addition, a more favorable geographic mix of earnings in 2021 contributed to the Company's lower effective tax rate. These benefits were partially offset by a lower discrete tax benefit related to share-based payments in 2021.

### **Singapore Income Tax Rate**

In connection with the expansion of the Company's operations in the Asia Pacific, Middle East and Africa region, the Company's subsidiary in Singapore, Mastercard Asia Pacific Pte. Ltd. ("MAPPL") received an incentive grant from the Singapore Ministry of Finance in 2010. The incentive had provided MAPPL with, among other benefits, a reduced income tax rate for the 10-year period commencing January 1, 2010 on taxable income in excess of a base amount. The Company continued to explore business opportunities in this region, resulting in an expansion of the incentives being granted by the Ministry of Finance, including a further reduction to the income tax rate on taxable income in excess of a revised fixed base amount commencing July 1, 2011 and continuing through December 31, 2025. Without the incentive grant, MAPPL would have been subject to the statutory income tax rate on its earnings. For 2022, 2021 and 2020, the impact of the incentive grant received from the Ministry of Finance resulted in a reduction of MAPPL's income tax liability of \$454 million, or \$0.47 per diluted share, \$300 million, or \$0.30 per diluted share, and \$260 million, or \$0.26 per diluted share, respectively.

### **Indefinite Reinvestment**

As of December 31, 2022 the Company does not accrue taxes on \$1.6 billion of foreign earnings which remain permanently reinvested outside the U.S. The Company expects that taxes associated with any future repatriation of these earnings are immaterial.



## Deferred Taxes

Deferred tax assets and liabilities represent the expected future tax consequences of temporary differences between the carrying amounts and the tax basis of assets and liabilities. The components of deferred tax assets and liabilities at December 31 are as follows:

	2022	2021
	(in millions)	
Deferred Tax Assets		
Accrued liabilities	\$ 697	\$ 497
Compensation and benefits	316	260
State taxes and other credits	43	40
Net operating losses	156	136
U.S. foreign tax credits	274	333
Property, plant and equipment	52	—
Intangible assets	186	206
Other items	162	161
Less: Valuation allowance	(114)	(415)
<b>Total Deferred Tax Assets</b>	<b>1,772</b>	<b>1,218</b>
Deferred Tax Liabilities		
Prepaid expenses and other accruals	186	114
Gains on equity investments	132	153
Goodwill and intangible assets	561	571
Property, plant and equipment	—	174
Other items	135	115
<b>Total Deferred Tax Liabilities</b>	<b>1,014</b>	<b>1,127</b>
<b>Net Deferred Tax Assets</b>	<b>\$ 758</b>	<b>\$ 91</b>

The valuation allowance balance at December 31, 2022 primarily related to the Company's ability to recognize future tax benefits associated with certain foreign losses. The recognition of the foreign losses is dependent on the timing and character of future taxable income in the applicable jurisdictions. The valuation allowance balance at December 31, 2021 primarily related to the Company's ability to recognize future tax benefits associated with the carry forward of U.S. foreign tax credits and certain foreign losses. The valuation allowance associated with the carryforward of U.S. foreign tax credits was released in 2022 as a result of the publication of final U.S. tax regulations. The regulations limit the Company's ability to generate foreign tax credits for certain taxes paid beginning in 2022, but have the effect of allowing the Company to utilize its foreign tax credit carryforwards.

As of December 31, 2022, the Company had foreign tax credit and tax effected net operating loss carryforwards of \$274 million and \$156 million, respectively. The foreign tax credits begin to expire in 2029 and the majority of the net operating losses can be carried forward indefinitely.

A reconciliation of the beginning and ending balance for the Company's unrecognized tax benefits for the years ended December 31, is as follows:

	2022	2021	2020
	(in millions)		
Beginning balance	\$ 360	\$ 388	\$ 203
Additions:			
Current year tax positions	22	17	19
Prior year tax positions <sup>1</sup>	65	4	192
Reductions:			
Prior year tax positions <sup>1</sup>	(14)	(31)	(10)
Settlements with tax authorities	(13)	(15)	(12)
Expired statute of limitations	(6)	(3)	(4)
Ending balance	\$ 414	\$ 360	\$ 388

<sup>1</sup> Includes immaterial translational impact of currency.

As of December 31, 2022, the amount of unrecognized tax benefit was \$414 million. This amount, if recognized, would reduce the effective income tax rate by \$362 million. The Company's unrecognized tax benefits increased in 2020 primarily due to a prior year tax issue resulting from a refund claim filed in 2020.

The Company is subject to tax in the U.S., Belgium, Singapore, the United Kingdom and various other foreign jurisdictions, as well as state and local jurisdictions. Uncertain tax positions are reviewed on an ongoing basis and are adjusted after considering facts and circumstances, including progress of tax audits, developments in case law and closing of statutes of limitation. Within the next twelve months, the Company believes that the resolution of certain federal, foreign and state and local examinations is reasonably possible and that a change in estimate, reducing unrecognized tax benefits, may occur. While such a change may be significant, it is not possible to provide a range of the potential change until the examinations progress further or the related statutes of limitation expire. The Company has effectively settled its U.S. federal income tax obligations through 2014. With limited exception, the Company is no longer subject to state and local or foreign examinations by tax authorities for years before 2011.

## Note 21. Legal and Regulatory Proceedings

Mastercard is a party to legal and regulatory proceedings with respect to a variety of matters in the ordinary course of business. Some of these proceedings are based on complex claims involving substantial uncertainties and unascertainable damages. Accordingly, except as discussed below, it is not possible to determine the probability of loss or estimate damages, and therefore, Mastercard has not established reserves for any of these proceedings. When the Company determines that a loss is both probable and reasonably estimable, Mastercard records a liability and discloses the amount of the liability if it is material. When a material loss contingency is only reasonably possible, Mastercard does not record a liability, but instead discloses the nature and the amount of the claim, and an estimate of the loss or range of loss, if such an estimate can be made. Unless otherwise stated below with respect to these matters, Mastercard cannot provide an estimate of the possible loss or range of loss based on one or more of the following reasons: (1) actual or potential plaintiffs have not claimed an amount of monetary damages or the amounts are unsupportable or exaggerated, (2) the matters are in early stages, (3) there is uncertainty as to the outcome of pending appeals or motions, (4) there are significant factual issues to be resolved, (5) the existence in many such proceedings of multiple defendants or potential defendants whose share of any potential financial responsibility has yet to be determined and/or (6) there are novel legal issues presented. Furthermore, except as identified with respect to the matters below, Mastercard does not believe that the outcome of any individual existing legal or regulatory proceeding to which it is a party will have a material adverse effect on its results of operations, financial condition and overall business. However, an adverse judgment or other outcome or settlement with respect to any proceedings discussed below could result in fines or payments by Mastercard and/or could require Mastercard to change its business practices. In addition, an adverse outcome in a regulatory proceeding could lead to the filing of civil damage claims and possibly result in significant damage awards. Any of these events could have a material adverse effect on Mastercard's results of operations, financial condition and overall business.

### Interchange Litigation and Regulatory Proceedings

Mastercard's interchange fees and other practices are subject to regulatory, legal review and/or challenges in a number of jurisdictions, including the proceedings described below. When taken as a whole, the resulting decisions, regulations and legislation with respect to interchange fees and acceptance practices may have a material adverse effect on the Company's prospects for future growth and its overall results of operations, financial position and cash flows.

*United States.* In June 2005, the first of a series of complaints were filed on behalf of merchants (the majority of the complaints were styled as class actions, although a few complaints were filed on behalf of individual merchant plaintiffs) against Mastercard International, Visa U.S.A., Inc., Visa International Service Association and a number of financial institutions. Taken together, the claims in the complaints were generally brought under both Sections 1 and 2 of the Sherman Act, which prohibit monopolization and attempts or conspiracies to monopolize a particular industry, and some of these complaints contain unfair competition law claims under state law. The complaints allege, among other things, that Mastercard, Visa, and certain financial institutions conspired to set the price of interchange fees, enacted point of sale acceptance rules (including the no surcharge rule) in violation of antitrust laws and engaged in unlawful tying and bundling of certain products and services, resulting in merchants paying excessive costs for the acceptance of Mastercard and Visa credit and debit cards. The cases were consolidated for pre-trial proceedings in the U.S. District Court for the Eastern District of New York in MDL No. 1720. The plaintiffs filed a consolidated class action complaint seeking treble damages.

In July 2006, the group of purported merchant class plaintiffs filed a supplemental complaint alleging that Mastercard's initial public offering of its Class A Common Stock in May 2006 (the "IPO") and certain purported agreements entered into between Mastercard and financial institutions in connection with the IPO: (1) violate U.S. antitrust laws and (2) constituted a fraudulent conveyance because the financial institutions allegedly attempted to release, without adequate consideration, Mastercard's right to assess them for Mastercard's litigation liabilities. The class plaintiffs sought treble damages and injunctive relief including, but not limited to, an order reversing and unwinding the IPO.

In February 2011, Mastercard and Mastercard International entered into each of: (1) an omnibus judgment sharing and settlement sharing agreement with Visa Inc., Visa U.S.A. Inc. and Visa International Service Association and a number of financial institutions; and (2) a Mastercard settlement and judgment sharing agreement with a number of financial institutions. The agreements provide for the apportionment of certain costs and liabilities which Mastercard, the Visa parties and the financial institutions may incur, jointly and/or severally, in the event of an adverse judgment or settlement of one or all of the merchant litigation cases. Among a number of scenarios addressed by the agreements, in the event of a global settlement involving the Visa parties, the financial institutions and Mastercard, Mastercard would pay 12% of the monetary portion of the settlement. In the event of a settlement involving only Mastercard and the financial institutions with respect to their issuance of Mastercard cards, Mastercard would pay 36% of the monetary portion of such settlement.

In October 2012, the parties entered into a definitive settlement agreement with respect to the merchant class litigation (including with respect to the claims related to the IPO) and the defendants separately entered into a settlement agreement with the individual merchant plaintiffs. The settlements included cash payments that were apportioned among the defendants pursuant to the omnibus judgment sharing and settlement sharing agreement described above. Mastercard also agreed to provide class members with a short-term reduction in default credit interchange rates and to modify certain of its business practices, including its "no surcharge" rule. The court granted final approval of the settlement in December 2013, and objectors to the settlement appealed that decision to the U.S. Court of Appeals for the Second Circuit. In June 2016, the court of appeals vacated the class action certification, reversed the settlement approval and sent the case back to the district court for further proceedings. The court of appeals' ruling was based primarily on whether the merchants were adequately represented by counsel in the settlement. As a result of the appellate court ruling, the district court divided the merchants' claims into two separate classes - monetary damages claims (the "Damages Class") and claims seeking changes to business practices (the "Rules Relief Class"). The court appointed separate counsel for each class.

In September 2018, the parties to the Damages Class litigation entered into a class settlement agreement to resolve the Damages Class claims. The time period during which Damages Class members were permitted to opt out of the class settlement agreement ended in July 2019 with merchants representing slightly more than 25% of the Damages Class interchange volume choosing to opt out of the settlement. The district court granted final approval of the settlement in December 2019. The district court's settlement approval order has been appealed and oral argument on the appeal was heard in March 2022. Mastercard has commenced settlement negotiations with a number of the opt-out merchants and has reached settlements and/or agreements in principle to settle a number of these claims. The Damages Class settlement agreement does not relate to the Rules Relief Class claims. Separate settlement negotiations with the Rules Relief Class are ongoing. Briefing on summary judgment motions in the Rules Relief Class and opt-out merchant cases was completed in December 2020. In September 2021, the district court granted the Rules Relief Class's motion for class certification.

As of December 31, 2022 and 2021, Mastercard had accrued a liability of \$894 million and \$783 million, respectively, as a reserve for both the Damages Class litigation and the opt-out merchant cases. During 2022, Mastercard recorded an additional accrual of \$133 million as a result of a change in estimate with respect to the claims of merchants who opted out of the Damages Class litigation. As of December 31, 2022 and 2021, Mastercard had \$589 million and \$586 million, respectively, in a qualified cash settlement fund related to the Damages Class litigation and classified as restricted cash on its consolidated balance sheet. The reserve as of December 31, 2022 for both the Damages Class litigation and the opt-out merchants represents Mastercard's best estimate of its

probable liabilities in these matters. The portion of the accrued liability relating to both the opt-out merchants and the Damages Class litigation settlement does not represent an estimate of a loss, if any, if the matters were litigated to a final outcome. Mastercard cannot estimate the potential liability if that were to occur.

*Europe.* Since May 2012, a number of United Kingdom (“U.K.”) merchants filed claims or threatened litigation against Mastercard seeking damages for excessive costs paid for acceptance of Mastercard credit and debit cards arising out of alleged anti-competitive conduct with respect to, among other things, Mastercard’s cross-border interchange fees and its U.K. and Ireland domestic interchange fees (the “U.K. Merchant claimants”). In addition, Mastercard, has faced similar filed or threatened litigation by merchants with respect to interchange rates in other countries in Europe (the “Pan-European Merchant claimants”). Mastercard has resolved a substantial amount of these damages claims through settlement or judgment. During 2022, Mastercard incurred charges of \$223 million as a result of settlements (both final and agreements in principle) with a number of U.K. merchants. During 2021 and 2020, Mastercard incurred charges of \$94 million and \$28 million, respectively, to reflect both the litigation settlements and estimated attorneys’ fees with a number of U.K. and Pan-European merchants. Following these settlements, an amount in excess of £0.6 billion (approximately \$0.7 billion as of December 31, 2022) of unresolved damages claims remain.

In January 2017, Mastercard received a liability judgment in its favor on all significant matters in a separate action brought by ten of the U.K. Merchant claimants. Three of the U.K. Merchant claimants appealed the judgment, and these appeals were combined with Mastercard’s appeal of a 2016 judgment in favor of one U.K. merchant. In July 2018, the U.K. appellate court heard the appeals of the four merchant claimants and ruled against both Mastercard and Visa on two of the three legal issues being considered. The parties appealed the rulings to the U.K. Supreme Court. In June 2020, the U.K. Supreme Court ruled against Mastercard and Visa with respect to one of the liability issues being considered by the Court related to U.K. domestic interchange fees. Additionally, the U.K. Supreme Court set out the legal standard that should be applied by lower trial courts with respect to determining whether interchange was exemptible under applicable law, and provided guidance to lower courts with regard to the legal standard that should be applied in assessing merchants’ damages claims. The U.K. Supreme Court sent three of the merchant cases back to the trial court solely for the purpose of determining damages issues. Mastercard subsequently reached settlement agreements with all four merchants.

Mastercard continues to litigate with the remaining U.K. and Pan-European Merchant claimants and it has submitted statements of defense disputing liability and damages claims. A number of those matters are now progressing with motion practice and discovery. In one of the actions involving multiple merchant plaintiff claims, the U.K. trial court in November 2021 denied the plaintiffs’ motion for summary judgment on certain liability issues. In October 2022, the appellate court rejected the plaintiffs’ appeal. In a separate matter filed in Belgium involving multiple merchants from the Czech Republic and Slovakia, the trial court held a hearing in June 2022 on liability issues, and the decision is pending.

During the third quarter of 2022, Mastercard and Visa were served with a proposed collective action complaint in the U.K. on behalf of merchants seeking damages for commercial card transactions and inter-regional consumer card transactions in both the U.K. and the European Union. The plaintiffs have claimed damages against Mastercard of approximately £0.5 billion (approximately \$0.6 billion as of December 31, 2022). The court has scheduled a hearing on the plaintiffs’ collective action application for April 2023.

In September 2016, a proposed collective action was filed in the United Kingdom on behalf of U.K. consumers seeking damages for intra-EEA and domestic U.K. interchange fees that were allegedly passed on to consumers by merchants between 1992 and 2008. The complaint, which seeks to leverage the European Commission’s 2007 decision on intra-EEA interchange fees, claims damages in an amount that exceeds £14 billion (approximately \$17 billion as of December 31, 2022). Following various hearings since July 2017 regarding collective action and scope, in August 2021, the trial court issued a decision in which it granted class certification to the plaintiffs but narrowed the scope of the class. In January 2023, the trial court held a hearing on Mastercard’s request to narrow the number of years of damages sought by the plaintiffs on statute of limitations grounds. The trial court has scheduled an additional hearing for July 2023 regarding Mastercard’s request to preclude the plaintiffs from seeking damages with respect to U.K. domestic interchange fees.

Mastercard has been named as a defendant in a proposed consumer collective action filed in Portugal on behalf of Portuguese consumers. The complaint, which seeks to leverage the 2019 resolution of the European Commission’s investigation of Mastercard’s central acquiring rules and interregional interchange fees, claims damages of approximately €0.4 billion (approximately \$0.4 billion as of December 31, 2022) for interchange fees that were allegedly passed on to consumers by Portuguese merchants for a period of approximately 20 years. Mastercard has submitted a statement of defense that disputes both liability and damages.

*Australia.* In May 2022, the Australian Competition & Consumer Commission (“ACCC”) filed a complaint targeting certain agreements entered into by Mastercard and certain Australian merchants related to Mastercard’s debit program. The ACCC alleges that by entering into such agreements, Mastercard engaged in conduct with the purpose of substantially lessening competition in the supply of debit card acceptance services. The ACCC seeks both declaratory relief and monetary fines and costs.

### ATM Non-Discrimination Rule Surcharge Complaints

*United States.* In October 2011, a trade association of independent Automated Teller Machine (“ATM”) operators and 13 independent ATM operators filed a complaint styled as a class action lawsuit in the U.S. District Court for the District of Columbia against both Mastercard and Visa (the “ATM Operators Complaint”). Plaintiffs seek to represent a class of non-bank operators of ATM terminals that operate in the United States with the discretion to determine the price of the ATM access fee for the terminals they operate. Plaintiffs allege that Mastercard and Visa have violated Section 1 of the Sherman Act by imposing rules that require ATM operators to charge non-discriminatory ATM surcharges for transactions processed over Mastercard’s and Visa’s respective networks that are not greater than the surcharge for transactions over other networks accepted at the same ATM. Plaintiffs seek both injunctive and monetary relief equal to treble the damages they claim to have sustained as a result of the alleged violations and their costs of suit, including attorneys’ fees.

Subsequently, multiple related complaints were filed in the U.S. District Court for the District of Columbia alleging both federal antitrust and multiple state unfair competition, consumer protection and common law claims against Mastercard and Visa on behalf of putative classes of users of ATM services (the “ATM Consumer Complaints”). The claims in these actions largely mirror the allegations made in the ATM Operators Complaint, although these complaints seek damages on behalf of consumers of ATM services who pay allegedly inflated ATM fees at both bank and non-bank ATM operators as a result of the defendants’ ATM rules. Plaintiffs seek both injunctive and monetary relief equal to treble the damages they claim to have sustained as a result of the alleged violations and their costs of suit, including attorneys’ fees.

In January 2012, the plaintiffs in the ATM Operators Complaint and the ATM Consumer Complaints filed amended class action complaints that largely mirror their prior complaints. In September 2019, the plaintiffs filed with the district court their motions for class certification in which the plaintiffs, in aggregate, allege over \$1 billion in damages against all of the defendants. In August 2021, the trial court issued an order granting the plaintiffs’ request for class certification. Visa and Mastercard subsequently appealed the certification decision to the appellate court and oral argument on the appeal was heard in September 2022.

*Europe.* Mastercard has been named as a defendant in an action brought by Euronet 360 Finance Limited, Euronet Polska Spolka z o.o. and Euronet Services spol. s r.o. (“Euronet”) alleging that certain rules affecting ATM access fees in Poland, the Czech Republic and Greece by Visa and Mastercard, and certain of their subsidiaries, breach various competition laws. Euronet seeks damages, costs and injunctive relief to prevent the defendants from enforcing these rules. A trial has been scheduled for October 2023.

### U.S. Liability Shift Litigation

In March 2016, a proposed U.S. merchant class action complaint was filed in federal court in California alleging that Mastercard, Visa, American Express and Discover (the “Network Defendants”), EMVCo, and a number of issuing banks (the “Bank Defendants”) engaged in a conspiracy to shift fraud liability for card present transactions from issuing banks to merchants not yet in compliance with the standards for EMV chip cards in the United States (the “EMV Liability Shift”), in violation of the Sherman Act and California law. Plaintiffs allege damages equal to the value of all chargebacks for which class members became liable as a result of the EMV Liability Shift on October 1, 2015. The plaintiffs seek treble damages, attorney’s fees and costs and an injunction against future violations of governing law, and the defendants filed a motion to dismiss. In September 2016, the district court denied the Network Defendants’ motion to dismiss the complaint, but granted such a motion for EMVCo and the Bank Defendants. In May 2017, the district court transferred the case to New York so that discovery could be coordinated with the U.S. merchant class interchange litigation described above. In August 2020, the district court issued an order granting the plaintiffs’ request for class certification and in January 2021, the Network Defendants’ request for permission to appeal that decision was denied. The plaintiffs have submitted expert reports that allege aggregate damages in excess of \$1 billion against the four Network Defendants. The Network Defendants have submitted expert reports rebutting both liability and damages. Briefing on summary judgment is scheduled to conclude in July 2023.

### Telephone Consumer Protection Class Action

Mastercard is a defendant in a Telephone Consumer Protection Act (“TCPA”) class action pending in Florida. The plaintiffs are individuals and businesses who allege that approximately 381,000 unsolicited faxes were sent to them advertising a Mastercard co-brand card issued by First Arkansas Bank (“FAB”). The TCPA provides for uncapped statutory damages of \$500 per fax. Mastercard has asserted various defenses to the claims, and has notified FAB of an indemnity claim that it has (which FAB has disputed). In December 2019, the Federal Communications Commission (“FCC”) issued a declaratory ruling clarifying that the TCPA does not apply to faxes sent to online fax services that are received online via email. In December 2021, the trial court granted plaintiffs’ request for class certification, but narrowed the scope of the class to stand alone fax recipients only. Mastercard’s request to appeal that decision was denied.

## U.S. Federal Trade Commission Investigation

In June 2020, the U.S. Federal Trade Commission's Bureau of Competition ("FTC") informed Mastercard that it has initiated a formal investigation into compliance with the Durbin Amendment to the Dodd-Frank Wall Street Reform and Consumer Protection Act. In particular, the investigation focused on Mastercard's compliance with the debit routing provisions of the Durbin Amendment. In December 2022, the FTC voted to issue an administrative complaint and accept a consent agreement with Mastercard. Pursuant to this agreement, Mastercard agreed to provide primary account numbers (PANs) so that merchants can route tokenized online debit transactions to alternative networks. The consent agreement does not include any monetary penalty. The consent agreement is currently undergoing a comment period, after which the FTC will decide whether to make the proposed consent agreement final.

## U.K. Prepaid Cards Matter

In 2019, Mastercard was informed by the U.K. Payment Systems Regulator ("PSR") that Mastercard was a target of its investigation into alleged anti-competitive conduct by public sector prepaid card program managers in the U.K. This matter focused exclusively on historic behavior. In March 2021, the PSR announced the resolution and settlement of this investigation. As part of the resolution, Mastercard agreed to pay a maximum fine of £32 million. This matter has no prospective impact on Mastercard's on-going business. In connection with this matter, in the fourth quarter of 2020, Mastercard recorded a litigation charge of \$45 million. Mastercard paid the agreed fine in March 2022.

## Note 22. Settlement and Other Risk Management

Mastercard's rules guarantee the settlement of many of the transactions between its customers ("settlement risk"). Settlement exposure is the settlement risk to customers under Mastercard's rules due to the difference in timing between the payment transaction date and subsequent settlement. For those transactions the Company guarantees, the guarantee will cover the full amount of the settlement obligation to the extent the settlement obligation is not otherwise satisfied. Settlement is generally completed on a same-day basis, however, in some circumstances, funds may not settle until subsequent business days creating a short-term settlement exposure.

Gross settlement exposure is estimated using the average daily payment volume during the three months prior to period end multiplied by the estimated number of days of exposure. The Company has global risk management policies and procedures, which include risk standards, to provide a framework for managing the Company's settlement risk and exposure. In the event of failed settlement by a customer, Mastercard may pursue one or more remedies available under the Company's rules to recover potential losses. Historically, the Company has experienced a low level of losses from customer settlement failures.

As part of its policies, Mastercard requires certain customers that are not in compliance with the Company's risk standards to enter into risk mitigation arrangements, including cash collateral and/or other forms of credit enhancement such as letters of credit and guarantees. This requirement is based on a review of the individual risk circumstances for each customer. Mastercard monitors its credit risk portfolio and the adequacy of its risk mitigation arrangements on a regular basis. Additionally, from time to time, the Company reviews its risk management methodology and standards. As such, the amounts of estimated settlement exposure are revised as necessary.

The Company's estimated settlement exposure was as follows at December 31:

	2022	2021
	(in millions)	
Gross settlement exposure	\$ 64,885	\$ 59,571
Risk mitigation arrangements applied to settlement exposure	(10,697)	(7,710)
Net settlement exposure	\$ 54,188	\$ 51,861

Mastercard also provides guarantees to customers and certain other counterparties indemnifying them from losses stemming from failures of third parties to perform duties. This includes guarantees of Mastercard-branded travelers cheques issued, but not yet cashed of \$342 million and \$361 million at December 31, 2022 and 2021, respectively, of which the Company has risk mitigation arrangements for \$273 million and \$287 million at December 31, 2022 and 2021, respectively. In addition, the Company enters into agreements in the ordinary course of business under which the Company agrees to indemnify third parties against damages, losses and expenses incurred in connection with legal and other proceedings arising from relationships or transactions with the Company. Certain indemnifications do not provide a stated maximum exposure. As the extent of the Company's obligations under these agreements depends entirely upon the occurrence of future events, the Company's potential future liability under these agreements is not determinable. Historically, payments made by the Company under these types of contractual arrangements have not been material.

## Note 23. Derivative and Hedging Instruments

The Company monitors and manages its foreign currency and interest rate exposures as part of its overall risk management program which focuses on the unpredictability of financial markets and seeks to reduce the potentially adverse effects that the volatility of these markets may have on its operating results. A primary objective of the Company's risk management strategies is to reduce the financial impact that may arise from volatility in foreign currency exchange rates principally through the use of both foreign exchange derivative contracts and foreign currency denominated debt. In addition, the Company may enter into interest rate derivative contracts to manage the effects of interest rate movements on the Company's aggregate liability portfolio, including potential future debt issuances.

### Cash Flow Hedges

The Company may enter into foreign exchange derivative contracts, including forwards and options, to manage the impact of foreign currency variability on anticipated revenues and expenses, which fluctuate based on currencies other than the functional currency of the entity. The objective of these hedging activities is to reduce the effect of movement in foreign exchange rates for a portion of revenues and expenses forecasted to occur. As these contracts are designated as cash flow hedging instruments, gains and losses resulting from changes in fair value of these contracts are deferred in accumulated other comprehensive income (loss) and subsequently reclassified to the consolidated statement of operations when the underlying hedged transactions impact earnings.

In addition, the Company may enter into interest rate derivative contracts to manage the effects of interest rate movements on the Company's aggregate liability portfolio, including potential future debt issuances, and designate such derivatives as hedging instruments in a cash flow hedging relationship. In 2019, the Company entered into treasury rate locks which are accounted for as cash flow hedges. In the first quarter of 2020, in connection with the issuance of the 2020 USD Notes, these contracts were settled at a loss of \$136 million, after tax, in accumulated other comprehensive income (loss). As of December 31, 2022, a cumulative loss of \$123 million, after tax, remains in accumulated other comprehensive income (loss) associated with these contracts and will be reclassified as an adjustment to interest expense over the respective terms of the 2020 USD Notes due in March 2030 and March 2050.

### Fair Value Hedges

The Company may enter into interest rate derivative contracts, including interest rate swaps, to manage the effects of interest rate movements on the fair value of the Company's fixed-rate debt and designate such derivatives as hedging instruments in a fair value hedging relationship. Changes in fair value of these contracts and changes in fair value of fixed-rate debt attributable to changes in the hedged benchmark interest rate generally offset each other and are recorded in interest expense on the consolidated statement of operations. Gains or losses related to the net settlements of interest rate swaps are also recorded in interest expense on the consolidated statement of operations. The periodic cash settlements are included in operating activities on the consolidated statement of cash flows.

During the fourth quarter of 2021, the Company entered into an interest rate swap designated as a fair value hedge related to \$1.0 billion of the 3.850% Senior Notes due March 2050. In effect, the interest rate swap synthetically converts the fixed interest rate on this debt to a variable interest rate based on the Secured Overnight Financing Rate ("SOFR") Overnight Index Swap Rate. The net impact to interest expense for the years ended December 31, 2022 and 2021 was not material.

### Net Investment Hedges

The Company may use foreign currency denominated debt and/or foreign exchange derivative contracts to hedge a portion of its net investment in foreign subsidiaries against adverse movements in exchange rates. The effective portion of the net investment hedge is recorded as a currency translation adjustment in accumulated other comprehensive income (loss). Forward points are designated as an excluded component and recognized in general and administrative expenses on the consolidated statement of operations over the hedge period. The amounts recognized in earnings related to forward points for 2022 and 2021 were not material.

In 2015 and 2022, the Company designated its €1,650 million and €750 million euro-denominated debt, respectively, as hedges of a portion of its net investment in its European operations. In 2022, €700 million of the 2015 euro-denominated debt matured and was de-designated as a net investment hedge. During 2022, 2021 and 2020 the Company recorded a pre-tax net foreign currency gain of \$176 million, gain of \$155 million and loss of \$177 million, respectively, in other comprehensive income (loss).

As of December 31, 2022 and 2021, the Company had net foreign currency gains of \$309 million and \$34 million, after tax, respectively, in accumulated other comprehensive income (loss) associated with this hedging activity.

## Non-designated Derivatives

The Company may also enter into foreign exchange derivative contracts to serve as economic hedges, such as to offset possible changes in the value of monetary assets and liabilities due to foreign exchange fluctuations, without designating these derivative contracts as hedging instruments. In addition, the Company is subject to foreign exchange risk as part of its daily settlement activities. This risk is typically limited to a few days between when a payment transaction takes place and the subsequent settlement with customers. To manage this risk, the Company may enter into short duration foreign exchange derivative contracts based upon anticipated receipts and disbursements for the respective currency position. The objective of these activities is to reduce the Company's exposure to volatility arising from gains and losses resulting from fluctuations of foreign currencies against its functional currencies. Gains and losses resulting from changes in fair value of these contracts are recorded in general and administrative expenses on the consolidated statement of operations, net, along with the foreign currency gains and losses on monetary assets and liabilities.

The following table summarizes the fair value of the Company's derivative financial instruments and the related notional amounts:

	December 31, 2022			December 31, 2021		
	Notional	Derivative Assets	Derivative Liabilities	Notional	Derivative Assets	Derivative Liabilities
	(in millions)					
<i>Derivatives designated as hedging instruments</i>						
Foreign exchange contracts in a cash flow hedge <sup>1</sup>	\$ 642	\$ 4	\$ 15	\$ 206	\$ 7	\$ 3
Interest rate contracts in a fair value hedge <sup>2</sup>	1,000	—	105	1,000	6	8
Foreign exchange contracts in a net investment hedge <sup>1</sup>	1,814	103	4	1,473	—	4
<i>Derivatives not designated as hedging instruments</i>						
Foreign exchange contracts <sup>1</sup>	521	1	2	530	1	8
Total derivative assets/liabilities	\$ 3,977	\$ 108	\$ 126	\$ 3,209	\$ 14	\$ 23

<sup>1</sup> Foreign exchange derivative assets and liabilities are included within prepaid expenses and other current assets and other current liabilities, respectively, on the consolidated balance sheet.

<sup>2</sup> As of December 31, 2022, interest rate derivative liabilities are included within other current liabilities and other liabilities on the consolidated balance sheet. As of December 31, 2021, interest rate derivative assets and liabilities are included within prepaid expenses and other current assets and other liabilities, respectively, on the consolidated balance sheet.

The pre-tax gain (loss) related to the Company's derivative financial instruments designated as hedging instruments are as follows:

	Gain (Loss) Recognized in OCI					Location of Gain (Loss) Reclassified from AOCI into Earnings	Gain (Loss) Reclassified from AOCI						
	Year ended December 31,						Year ended December 31,						
	2022	2021	2020				2022	2021	2020				
	(in millions)						(in millions)						
<b>Derivative financial instruments in a cash flow hedge relationship:</b>													
Foreign exchange contracts	\$	1	\$	6	\$	—	Net revenue	\$	16	\$	1	\$	—
Interest rate contracts	\$	—	\$	—	\$	(189)	Interest expense	\$	(6)	\$	(6)	\$	(4)
<b>Derivative financial instruments in a net investment hedge relationship:</b>													
Foreign exchange contracts	\$	177	\$	114	\$	—							

The Company estimates that \$17 million, pre-tax, of the net deferred loss on cash flow hedges recorded in accumulated other comprehensive income (loss) at December 31, 2022 will be reclassified into the consolidated statement of operations within the next 12 months. The term of the foreign exchange derivative contracts designated in hedging relationships are generally less than 18 months.



The amount of gain (loss) recognized on the consolidated statement of operations for non-designated derivative contracts is summarized below:

Derivatives not designated as hedging instruments:	Year ended December 31,		
	2022	2021	2020
	(in millions)		
Foreign exchange derivative contracts			
General and administrative	\$ 21	\$ (10)	\$ 40

The Company's derivative financial instruments are subject to both market and counterparty credit risk. Market risk is the potential for economic losses to be incurred on market risk sensitive instruments arising from adverse changes in market factors such as foreign currency exchange rates, interest rates and other related variables. Counterparty credit risk is the risk of loss due to failure of the counterparty to perform its obligations in accordance with contractual terms. The Company's derivative contracts are subject to enforceable master netting arrangements, which contain various netting and setoff provisions. To mitigate counterparty credit risk, the Company enters into derivative contracts with a diversified group of selected financial institutions based upon their credit ratings and other factors. Generally, the Company does not obtain collateral related to derivatives because of the high credit ratings of the counterparties.

## Note 24. Segment Reporting

Mastercard has concluded it has one reportable operating segment, "Payment Solutions." Mastercard's Chief Executive Officer has been identified as the chief operating decision-maker. All of the Company's activities are interrelated, and each activity is dependent upon and supportive of the other. Accordingly, all significant operating decisions are based upon analysis of Mastercard at the consolidated level.

Revenue by geographic market is based on the location of the Company's customer that issued the card, the location of the merchant acquirer where the card is being used or the location of the customer receiving services. Revenue generated in the U.S. was approximately 33% of net revenue in 2022, 32% in 2021 and 33% in 2020. No individual country, other than the U.S., generated more than 10% of net revenue in those periods. Mastercard did not have any individual customer that generated greater than 10% of net revenue in 2022, 2021 or 2020.

The following table reflects the geographical location of the Company's property, equipment and right-of-use assets, net, as of December 31:

	2022	2021	2020
	(in millions)		
United States	\$ 1,123	\$ 1,117	\$ 1,185
Other countries	883	790	717
Total	\$ 2,006	\$ 1,907	\$ 1,902

## Item 9. Changes in and disagreements with accountants on accounting and financial disclosure

Not applicable.

## Item 9A. Controls and procedures

### Evaluation of Disclosure Controls and Procedures

Our disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”)) are designed to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the rules and forms of the Securities and Exchange Commission and to ensure that information required to be disclosed is accumulated and communicated to management, including our President and Chief Executive Officer and our Chief Financial Officer, to allow timely decisions regarding disclosure. The President and Chief Executive Officer and the Chief Financial Officer, with assistance from other members of management, have reviewed the effectiveness of our disclosure controls and procedures as of December 31, 2022 and, based on their evaluation, have concluded that the disclosure controls and procedures were effective as of such date.

### Internal Control over Financial Reporting

In addition, Mastercard Incorporated’s management assessed the effectiveness of Mastercard’s internal control over financial reporting as of December 31, 2022. Management’s report on internal control over financial reporting is included in Part II, Item 8. PricewaterhouseCoopers LLP, an independent registered public accounting firm, has audited the consolidated financial statements included in this Annual Report on Form 10-K and, as part of their audit, has issued their report, included herein, on the effectiveness of our internal control over financial reporting.

### Changes in Internal Control over Financial Reporting

There was no change in Mastercard’s internal control over financial reporting that occurred during the three months ended December 31, 2022 that has materially affected, or is reasonably likely to materially affect, Mastercard’s internal control over financial reporting.

## Item 9B. Other information

Pursuant to Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012, we hereby incorporate by reference herein the disclosure contained in Exhibit 99.1 of this Report.

# PART III

Item 10. Directors, executive officers and corporate governance

Item 11. Executive compensation

Item 12. Security ownership of certain beneficial owners and management and related stockholder matters

Item 13. Certain relationships and related transactions, and director independence

Item 14. Principal accountant fees and services

## Item 10. Directors, executive officers and corporate governance

Information regarding our executive officers is included in section “Information about our executive officers” in Part I of this Report. Additional information required by this Item with respect to our directors and executive officers, code of ethics, procedures for recommending nominees, audit committee, audit committee financial experts and compliance with Section 16(a) of the Exchange Act will appear in our definitive proxy statement to be filed with the SEC and delivered to stockholders in connection with our 2023 annual meeting of stockholders (the “Proxy Statement”).

The aforementioned information in the Proxy Statement is incorporated by reference into this Report.

## Item 11. Executive compensation

The information required by this Item with respect to executive officer and director compensation will appear in the Proxy Statement and is incorporated by reference into this Report.

## Item 12. Security ownership of certain beneficial owners and management and related stockholder matters

The information required by this Item with respect to security ownership of certain beneficial owners and management equity and compensation plans will appear in the Proxy Statement and is incorporated by reference into this Report.

## Item 13. Certain relationships and related transactions, and director independence

The information required by this Item with respect to transactions with related persons, the review, approval or ratification of such transactions and director independence will appear in the Proxy Statement and is incorporated by reference into this Report.

## Item 14. Principal accountant fees and services

The information required by this Item with respect to auditors’ services and fees will appear in the Proxy Statement and is incorporated by reference into this Report.

# PART IV

Item 15. Exhibits and financial statement schedules

Item 16. Form 10-K summary

## Item 15. Exhibits and financial statement schedules

(a) The following documents are filed as part of this Report:

- 1 Consolidated Financial Statements  
See Index to Consolidated Financial Statements in Part II, Item 8.
- 2 Consolidated Financial Statement Schedules  
None.
- 3 The following exhibits are filed as part of this Report or, where indicated, were previously filed and are hereby incorporated by reference:  
Refer to the Exhibit Index included herein.

## Item 16. Form 10-K summary

None.

## Exhibit index

Exhibit number	Exhibit Description
3.1	Amended and Restated Certificate of Incorporation of Mastercard Incorporated (incorporated by reference to Exhibit 3.1 to the Company's Current Report on Form 8-K filed June 24, 2022 (File No. 001-32877)).
3.2	Amended and Restated By-Laws of Mastercard Incorporated (incorporated by reference to Exhibit 3.2 to the Company's Current Report on Form 8-K filed June 24, 2022 (File No. 001-32877)).
4.1	Indenture, dated as of March 31, 2014, between the Company and Deutsche Bank Trust Company Americas, as trustee (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).
4.2	Officer's Certificate of the Company, dated as of March 31, 2014 (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).
4.3	Form of Global Note representing the Company's 3.375% Notes due 2024 (included in Officer's Certificate of the Company, dated as of March 31, 2014) (incorporated by reference to Exhibit 4.2 of the Company's Current Report on Form 8-K filed on March 31, 2014 (File No. 001-32877)).
4.4	Officer's Certificate of the Company, dated as of December 1, 2015 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).
4.5	Form of Global Note representing the Company's 2.100% Notes due 2027 (included in Officer's Certificate of the Company, dated as of December 1, 2015) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).
4.6	Form of Global Note representing the Company's 2.500% Notes due 2030 (included in Officer's Certificate of the Company, dated as of December 1, 2015) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 1, 2015 (File No. 001-32877)).
4.7	Officer's Certificate of the Company, dated as of November 21, 2016 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).
4.8	Form of Global Note representing the Company's 2.950% Notes due 2026 (included in Officer's Certificate of the Company, dated as of November 21, 2016) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).
4.9	Form of Global Note representing the Company's 3.800% Notes due 2046 (included in Officer's Certificate of the Company, dated as of November 21, 2016) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 21, 2016 (File No. 001-32877)).
4.10	Officer's Certificate of the Company, dated as of February 26, 2018 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).
4.11	Form of Global Note representing the Company's 3.5% Notes due 2028 (included in Officer's Certificate of the Company, dated as of February 26, 2018) (incorporated by reference to Exhibit 4.1 of the of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).
4.12	Form of Global Note representing the Company's 3.95% Notes due 2048 (included in Officer's Certificate of the Company, dated as of February 26, 2018) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 26, 2018 (File No. 001-32877)).
4.13	Officer's Certificate of the Company, dated as of May 31, 2019 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).
4.14	Form of Global Note representing the Company's 2.950% Notes due 2029 (included in Officer's Certificate of the Company, dated as of May 31, 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).
4.15	Form of Global Note representing the Company's 3.650% Notes due 2049 (included in Officer's Certificate of the Company, dated as of May 31, 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on May 31, 2019 (File No. 001-32877)).
4.16	Officer's Certificate of the Company, dated as of December 3, 2019 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 3, 2019 (File No. 001-32877)).
4.17	Form of Global Note representing the Company's 2.000% Notes due 2025 (included in Officer's Certificate of the Company, dated as of December 3, 2019) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on December 3, 2019 (File No. 001-32877)).
4.18	Officer's Certificate of the Company, dated as of March 26, 2020 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).
4.19	Form of Global Note representing the Company's 3.300% Notes due 2027 (included in Officer's Certificate of the Company, dated as of March 26, 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).
4.20	Form of Global Note representing the Company's 3.350% Notes due 2030 (included in Officer's Certificate of the Company, dated as of March 26, 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).
4.21	Form of Global Note representing the Company's 3.850% Notes due 2050 (included in Officer's Certificate of the Company, dated as of March 26, 2020) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 26, 2020 (File No. 001-32877)).
4.22	Officer's Certificate of the Company, dated as of March 4, 2021 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 4, 2021 (File No. 001-32877)).
4.23	Form of Global Note representing the Company's 1.900% Notes due 2031 (included in Officer's Certificate of the Company, dated as of March 4, 2021) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 4, 2021 (File No. 001-32877)).
4.24	Form of Global Note representing the Company's 2.950% Notes due 2051 (included in Officer's Certificate of the Company, dated as of March 4, 2021) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on March 4, 2021 (File No. 001-32877)).

4.25	Officer's Certificate of the Company, dated as of November 18, 2021 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 18, 2021 (File No. 001-32877)).
4.26	Form of Global Note representing the Company's 2.000% Notes due 2031 (included in Officer's Certificate of the Company, dated as of November 18, 2021) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on November 18, 2021 (File No. 001-32877)).
4.27	Officer's Certificate of the Company, dated as of February 22, 2022 (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 22, 2022 (File No. 001-32877)).
4.28	Form of Global Note representing the Company's 1.000% Notes due 2029 (included in Officer's Certificate of the Company, dated as of February 22, 2022) (incorporated by reference to Exhibit 4.1 of the Company's Current Report on Form 8-K filed on February 22, 2022 (File No. 001-32877)).
4.29*	Description of Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934.
10.1*	\$8,000,000,000 Amended and Restated Credit Agreement, dated as of November 10, 2022, among Mastercard Incorporated, the several lenders and agents from time to time party thereto, Citibank, N.A., as managing administrative agent and JPMorgan Chase Bank, N.A. as administrative agent.
10.2+	Employment Agreement between Mastercard International Incorporated and Ajaypal Banga, dated as of July 1, 2010 (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed July 8, 2010 (File No. 001-32877)).
10.2.1+	Employment Letter Agreement between Mastercard International Incorporated and Ajaypal Banga, dated as of December 31, 2020 (incorporated by reference to Exhibit 10.2.1 to the Company's Annual Report on Form 10-K filed February 12, 2021 (File No. 001-32877)).
10.2.2	Consulting Letter Agreement between Mastercard International Incorporated and Ajaypal Banga, dated as of December 13, 2021 (incorporated by reference to Exhibit 10.2.2 to the Company's Annual Report on Form 10-K filed February 11, 2022 (File No. 001-32877)).
10.3+	Description of Employment Arrangement with Craig Vosburg (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed May 2, 2018 (File No. 001-32877)).
10.4+	Description of Employment Arrangement with Tim Murphy (incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q filed April 30, 2019 (File No. 001-32877)).
10.5+	Description of Employment Arrangement with Michael Froman (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed April 29, 2020 (File No. 001-32877)).
10.6+	Description of Employment Arrangement with Sachin Mehra (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed April 29, 2020 (File No. 001-32877)).
10.7+	Description of Employment Arrangement with Michael Miebach (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed April 29, 2020 (File No. 001-32877)).
10.8+	Mastercard International Senior Executive Annual Incentive Compensation Plan, as amended and restated effective September 7, 2022 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed October 27, 2022 (File No. 001-32877)).
10.9+	Mastercard International Incorporated Restoration Program, as amended and restated January 1, 2007 unless otherwise provided (incorporated by reference to Exhibit 10.22 to the Company's Annual Report on Form 10-K filed February 19, 2009 (File No. 001-32877)).
10.10+	Mastercard Incorporated Deferral Plan, as amended and restated effective December 1, 2008 for account balances established after December 31, 2004 (incorporated by reference to Exhibit 10.25 to the Company's Annual Report on Form 10-K filed February 19, 2009 (File No. 001-32877)).
10.11+	Mastercard Incorporated 2006 Long Term Incentive Plan, amended and restated effective June 22, 2021 (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed July 29, 2021 (File No. 001-32877)).
10.12+	Form of Restricted Stock Unit Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent to March 1, 2022) (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed April 28, 2022 (File No. 001-32877)).
10.13+	Form of Stock Option Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent to March 1, 2022) (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed April 28, 2022 (File No. 001-32877)).
10.14+	Form of Performance Stock Unit Agreement for awards under 2006 Long Term Incentive Plan (effective for awards granted on and subsequent to March 1, 2022) (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed April 28, 2022 (File No. 001-32877)).
10.15+	Form of Mastercard Incorporated Long Term Incentive Plan Non-Competition and Non-Solicitation Agreement for named executive officers (incorporated by reference to Exhibit 10.17 to the Company's Annual Report on Form 10-K filed February 16, 2012 (File No. 001-32877)).
10.16+	Amended and Restated Mastercard International Incorporated Executive Severance Plan, amended and restated as of April 11, 2022 (incorporated by reference to Exhibit 10.4 to the Company's Quarterly Report on Form 10-Q filed April 28, 2022 (File No. 001-32877)).
10.17+	Amended and Restated Mastercard International Incorporated Change in Control Severance Plan, amended and restated as of April 11, 2022 (incorporated by reference to Exhibit 10.5 to the Company's Quarterly Report on Form 10-Q filed April 28, 2022 (File No. 001-32877)).
10.18	Schedule of Non-Employee Directors' Annual Compensation effective as of January 1, 2022 (incorporated by reference to Exhibit 10.20 to the Company's Annual Report on Form 10-K filed February 11, 2022 (File No. 001-32877)).
10.19	2006 Non-Employee Director Equity Compensation Plan, amended and restated effective as of June 22, 2021 (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed July 29, 2021 (File No. 001-32877)).
10.20	Form of Deferred Stock Unit Agreement for awards under 2006 Non-Employee Director Equity Compensation Plan, amended and restated effective June 22, 2021 (effective for awards granted on and subsequent to June 21, 2022) (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed July 28, 2022 (File No. 001-32877)).
10.21	Form of Restricted Stock Agreement for awards under 2006 Non-Employee Director Equity Compensation Plan, amended and restated effective June 22, 2021 (effective for awards granted on and subsequent to June 21, 2022) (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed July 28, 2022 (File No. 001-32877)).
10.22	Form of Indemnification Agreement between Mastercard Incorporated and certain of its directors (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed May 2, 2006 (File No. 000-50250)).
10.23	Form of Indemnification Agreement between Mastercard Incorporated and certain of its director nominees (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed May 2, 2006 (File No. 000-50250)).



10.24	Deed of Gift between Mastercard Incorporated and Mastercard Foundation (incorporated by reference to Exhibit 10.28 to Pre-Effective Amendment No. 5 to the Company's Registration Statement on Form S-1 filed May 3, 2006 (File No. 333-128337)).
10.25	Settlement Agreement, dated as of June 4, 2003, between Mastercard International Incorporated and Plaintiffs in the class action litigation entitled In Re Visa Check/MasterMoney Antitrust Litigation (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed August 8, 2003 (File No. 000-50250)).
10.26	Stipulation and Agreement of Settlement, dated July 20, 2006, between Mastercard Incorporated, the several defendants and the plaintiffs in the consolidated federal class action lawsuit titled In re Foreign Currency Conversion Fee Antitrust Litigation (MDL 1409), and the California state court action titled Schwartz v. Visa Int'l Corp., et al. (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed November 1, 2006 (File No. 001-32877)).
10.27	Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of February 7, 2011, by and among Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A. Inc., Visa International Service Association and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.33 to Amendment No.1 to the Company's Annual Report on Form 10-K/A filed on November 23, 2011).
10.27.1	Amendment to Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of August 25, 2014, by and among Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A. Inc., Visa International Service Association and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.1 to the Company's Quarterly Report on Form 10-Q filed October 30, 2014 (File No. 001-32877)).
10.27.2	Second Amendment to Omnibus Agreement Regarding Interchange Litigation Judgment Sharing and Settlement Sharing, dated as of October 22, 2015, by and among Mastercard Incorporated, Mastercard International Incorporated, Visa Inc., Visa U.S.A. Inc., Visa International Service Association and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed October 29, 2015 (File No. 001-32877)).
10.28**	Mastercard Settlement and Judgment Sharing Agreement, dated as of February 7, 2011, by and among Mastercard Incorporated, Mastercard International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.34 to Amendment No.1 to the Company's Annual Report on Form 10-K/A filed on November 23, 2011).
10.28.1	Amendment to Mastercard Settlement and Judgment Sharing Agreement, dated as of August 26, 2014, by and among Mastercard Incorporated, Mastercard International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.2 to the Company's Quarterly Report on Form 10-Q filed October 30, 2014 (File No. 001-32877)).
10.28.2	Second Amendment to Mastercard Settlement and Judgment Sharing Agreement, dated as of October 22, 2015, by and among Mastercard Incorporated, Mastercard International Incorporated and Mastercard's customer banks that are parties thereto (incorporated by reference to Exhibit 10.3 to the Company's Quarterly Report on Form 10-Q filed October 29, 2015 (File No. 001-32877)).
10.29	Superseding and Amended Class Settlement Agreement, dated September 17, 2018, by and among Mastercard Incorporated and Mastercard International Incorporated; Visa, Inc., Visa U.S.A. Inc. and Visa International Service Association; the Class Plaintiffs defined therein; and the Customer Banks defined therein (incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K filed September 18, 2018 (File No. 001-32877)).
21*	List of Subsidiaries of Mastercard Incorporated.
23.1*	Consent of PricewaterhouseCoopers LLP.
31.1*	Certification of Michael Miebach, President and Chief Executive Officer, pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
31.2*	Certification of Sachin Mehra, Chief Financial Officer, pursuant to Rule 13a-14(a)/15d-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.
32.1*	Certification of Michael Miebach, President and Chief Executive Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
32.2*	Certification of Sachin Mehra, Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.
99.1*	Disclosure pursuant to Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012.
101.INS	XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
101.SCH*	XBRL Taxonomy Extension Schema Document
101.CAL*	XBRL Taxonomy Extension Calculation Linkbase Document
101.DEF*	XBRL Taxonomy Extension Definition Linkbase Document
101.LAB*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE*	XBRL Taxonomy Extension Presentation Linkbase Document

+ Management contracts or compensatory plans or arrangements.

\* Filed or furnished herewith.

\*\* Exhibit omits certain information that has been filed separately with the U.S. Securities and Exchange Commission and has been granted confidential treatment.

The agreements and other documents filed as exhibits to this report are not intended to provide factual information or other disclosure other than with respect to the terms of the agreements or other documents themselves, and should not be relied upon for that purpose. In particular, any representations and warranties made by the Company in these agreements or other documents were made solely within the specific context of the relevant agreement or document and may not describe the actual state of affairs as of the date they were made or at any other time.

# Signatures

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this Annual Report on Form 10-K to be signed on its behalf by the undersigned, thereunto duly authorized.

		<hr/>
		MASTERCARD INCORPORATED
		(Registrant)
Date:	February 14, 2023	By:
		<hr/>
		/s/ MICHAEL MIEBACH
		Michael Miebach
		President and Chief Executive Officer
		(Principal Executive Officer)

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated:

Date:	February 14, 2023	By:	<hr/>
			/s/ MICHAEL MIEBACH
			Michael Miebach
			President and Chief Executive Officer; Director
			(Principal Executive Officer)

Date:	February 14, 2023	By:	<hr/>
			/s/ SACHIN MEHRA
			Sachin Mehra
			Chief Financial Officer
			(Principal Financial Officer)

Date:	February 14, 2023	By:	<hr/>
			/s/ SANDRA ARKELL
			Sandra Arkell
			Corporate Controller
			(Principal Accounting Officer)

Date:	February 14, 2023	By:	<hr/>
			/s/ CANDIDO BRACHER
			Candido Bracher
			Director

Date:	February 14, 2023	By:	<hr/>
			/s/ RICHARD K. DAVIS
			Richard K. Davis
			Director

Date:	February 14, 2023	By:	<hr/>
			/s/ JULIUS GENACHOWSKI
			Julius Genachowski
			Director

Date:	February 14, 2023	By:	<hr/>
			/s/ CHOON PHONG GOH
			Choon Phong Goh
			Director

Date:	February 14, 2023	By:	<hr/>
			/s/ MERIT E. JANOW
			Merit E. Janow
			Chairman of the Board; Director

Date:	February 14, 2023	By:	<hr/>
			/s/ OKI MATSUMOTO
			Oki Matsumoto
			Director

Date:	February 14, 2023	By:	<div>/s/ YOUNGME MOON</div> <div><b>Youngme Moon</b></div> <div><b>Director</b></div>
Date:	February 14, 2023	By:	<div>/s/ RIMA QURESHI</div> <div><b>Rima Qureshi</b></div> <div><b>Director</b></div>
Date:	February 14, 2023	By:	<div>/s/ GABRIELLE SULZBERGER</div> <div><b>Gabrielle Sulzberger</b></div> <div><b>Director</b></div>
Date:	February 14, 2023	By:	<div>/s/ JACKSON TAI</div> <div><b>Jackson Tai</b></div> <div><b>Director</b></div>
Date:	February 14, 2023	By:	<div>/s/ HARIT TALWAR</div> <div><b>Harit Talwar</b></div> <div><b>Director</b></div>
Date:	February 14, 2023	By:	<div>/s/ LANCE UGGLA</div> <div><b>Lance Ugkla</b></div> <div><b>Director</b></div>

## Exhibit 4.29

**DESCRIPTION OF SECURITIES  
REGISTERED PURSUANT TO SECTION 12 OF  
THE SECURITIES EXCHANGE ACT OF 1934**

The following summary describes the securities of Mastercard Incorporated (“Mastercard”) registered pursuant to Section 12 of the Securities Exchange Act of 1934, as amended.

**DESCRIPTION OF COMMON STOCK**

The following description of our common stock is a summary and is qualified in its entirety by reference to our amended and restated certificate of incorporation and amended and restated bylaws, which are incorporated by reference as exhibits to this Annual Report on Form 10-K, and by applicable law. For purposes of this description, references to “Mastercard,” “we,” “our” and “us” refer only to Mastercard and not to its subsidiaries.

**Authorized Capitalization**

Our authorized capital stock consists of 3,000,000,000 shares of Class A common stock, par value \$.0001 per share, 1,200,000,000 shares of Class B common stock, par value \$.0001 per share, and 300,000,000 shares of preferred stock, par value \$.0001 per share.

**Common Stock**

**Voting Rights.** Each share of Class A common stock entitles its holder to one vote per share.

Except as may be required by Delaware law, holders of Class B common stock are not entitled to vote and have no voting power.

**Dividend Rights.** Our Class A common stock and Class B common stock share equally (on a per share basis) in any dividend declared by our board of directors, subject to any preferential or other rights of any outstanding preferred stock and to the distinction that any stock dividends will be paid in shares of Class A common stock to the holders of our Class A common stock and in shares of Class B common stock to the holders of our Class B common stock.

**Liquidation Rights.** Upon liquidation, dissolution or winding up, our Class A common stock and Class B common stock will be entitled to receive ratably the assets available for distribution to the stockholders after payment of liabilities and payment of preferential and other amounts, if any, payable on any outstanding preferred stock.

**Conversion Right of Class B Common Stock.** Subject to the provisions of our amended and restated certificate of incorporation that prohibit our members and former members, and any person that is an operator, member or licensee of any competing general purpose payment card system, and any affiliate of any such person, from beneficially owning any share of Class A common stock or of any other class of our stock with general voting power, each share of Class B common stock will be convertible, at the holder’s option, into a share of Class A common stock on a one-for-one basis.

**Beneficial Ownership Limitations.**

**Class A Common Stock and Other Voting Stock.** Subject to limited exceptions, our amended and restated certificate of incorporation prohibits any person from beneficially owning (a) shares of Class A common stock representing more than 15% of the aggregate outstanding shares or voting power of Class A common stock, (b) shares of any other class or series of our stock entitled to vote generally in the election of directors (“other voting stock”) representing more than 15% of the aggregate outstanding shares or voting power of such class or series, or (c) shares of Class A common stock and/or other voting stock representing more than 15% of the aggregate voting power of all our then outstanding shares of stock entitled to vote at an election of directors, voting as a single class. In addition, no member or former member of Mastercard International Incorporated (“Mastercard International”) or person that is an operator, member or licensee of any competing general purpose payment card system, or any affiliate of any such person, may beneficially own any share of Class A common stock or of other voting stock, except during a transitory period no longer than 30 days following a permitted conversion of shares of Class B common stock into shares of Class A common stock. Members of Mastercard International are not permitted to vote any shares of Class A common stock beneficially owned by them.

Any attempted transfer of Class A common stock or other voting stock which, if effective, would result in violation of the ownership limits discussed above, will cause the number of shares causing the violation (rounded to the next highest whole share) to be automatically transferred to a trust for the exclusive benefit of one or more charitable beneficiaries. The automatic transfer will be deemed to be effective as of the close of business on the business day prior to the date of the transfer. Shares of Class A common stock or other voting stock held in the trust will be issued and outstanding shares.

The Prohibited Owner (as defined in Mastercard's amended and restated certificate of incorporation) with respect to such purported transfer will not benefit economically from ownership of any shares of Class A common stock or other voting stock held in the trust, will have no rights to dividends or other distributions and no rights to vote or other rights attributable to the shares of Class A common stock or other voting stock held in the trust. The trustee of the trust will have all voting rights and rights to dividends or other distributions with respect to shares of Class A common stock or other voting stock held in the trust. These rights will be exercised for the exclusive benefit of the charitable beneficiary.

Any dividend or other distribution paid prior to Mastercard's discovery that shares of Class A common stock or other voting stock have been transferred to the trust has to be paid by the recipient to the trustee upon demand. Any dividend or other distribution authorized but unpaid will be paid when due to the trustee. Any dividend or distribution paid to the trustee will be held in trust for the charitable beneficiary. Subject to applicable law, the trustee will have the authority (1) to rescind as void any vote cast by the Prohibited Owner prior to Mastercard's discovery that the shares have been transferred to the trust and (2) to recast the vote in accordance with the desires of the trustee acting for the benefit of the charitable beneficiary. However, if Mastercard has already taken corporate action, then the trustee will not have the authority to rescind and recast the vote.

Within 20 days of receiving notice from Mastercard that shares of its stock have been transferred to the trust, the trustee must sell the shares to a person designated by the trustee, whose ownership of the shares will not violate the above ownership limitations. Upon the sale, the interest of the charitable beneficiary in the shares sold will terminate, and the trustee will distribute the net proceeds of the sale to the Prohibited Owner and to the charitable beneficiary as follows. The Prohibited Owner will receive the lesser of (1) the price paid by the Prohibited Owner for the shares or, if the Prohibited Owner did not give value for the shares in connection with the event causing the shares to be held in the trust (e.g., a gift, devise or other similar transaction), the Market Price (as defined in Mastercard's certificate of incorporation) of the shares on the day of the event causing the shares to be held in the trust and (2) the price received by the trustee from the sale or other disposition of the shares. Any net sale proceeds in excess of the amount payable to the Prohibited Owner will be paid immediately to the charitable beneficiary. If, prior to Mastercard's discovery that shares of its stock have been transferred to the trust, the shares are sold by the Prohibited Owner, then (1) the shares shall be deemed to have been sold on behalf of the trust and (2) to the extent that the Prohibited Owner received an amount for the shares that exceeds the amount he was entitled to receive, the excess shall be paid to the trustee upon demand.

In addition, shares of Class A common stock or other voting stock held in the trust transferred to the trustee may be redeemed by Mastercard, or its designee, at a price per share equal to the lesser of (1) the price per share in the transaction that resulted in such transfer to the trust (or, in the case of a devise, gift or other such transaction, the Market Price at the time of such devise or gift or other such transaction) and (2) the Market Price on the date Mastercard, or its designee, elects to redeem such shares. Mastercard may reduce the amount payable to the Prohibited Owner by the amount of dividends and distributions which has been paid to the Prohibited Owner and are owed by the Prohibited Owner to the trustee. Mastercard may pay the amount of such reduction to the trustee for the benefit of the charitable beneficiary. Mastercard shall have the right to redeem such shares until the trustee has sold the shares held in the trust. Upon such a redemption, the interest of the charitable beneficiary in the shares shall terminate and the trustee shall distribute the net proceeds of the redemption to the Prohibited Owner. Except as described above, shares of Class A common stock are not redeemable.

**Class B Common Stock.** Shares of Class B common stock may be held only by either principal members of Mastercard International, which participate directly in Mastercard International's business, or affiliate members of Mastercard International, which participate indirectly in Mastercard International's business through a principal member (collectively, "members"), by Mastercard, or a subsidiary of Mastercard, or by Mastercard's directors, officers or employees. Any transfer that would result in a violation of this ownership limitation will be void. Mastercard, or its designee, may redeem any shares of Class B common stock held by a person prohibited from holding such shares.

**Other Matters.** Holders of our common stock do not have preemptive or subscription rights.

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## DESCRIPTION OF NOTES

The following description is a summary of the terms of the following notes:

- 2.100% Notes due 2027 (the “2027 Notes”)
- 1.000% Notes due 2029 (the “2029 Notes”)
- 2.500% Notes due 2030 (the “2030 Notes”)

(collectively, the “Notes”).

The following description of the Notes is a summary and is qualified in its entirety by reference to the indenture pursuant to which the Notes were issued, as supplemented, which is incorporated by reference as an exhibit to this Annual Report on Form 10-K, and by applicable law. Wherever particular articles, sections or defined terms of the indenture are referred to, it is intended that those articles, sections or defined terms will be incorporated herein by reference, and the statement in connection with which reference is made is qualified in its entirety by the article, section or defined term in the indenture. For purposes of this description, references to “Mastercard,” “we,” “our” and “us” refer only to Mastercard and not to its subsidiaries.

### General

The 2027 Notes will mature on December 1, 2027, the 2029 Notes will mature on February 22, 2029 and the 2030 Notes will mature on December 1, 2030. The 2027 Notes bear interest at 2.100% per annum, the 2029 Notes bear interest at 1.000% per annum and the 2030 Notes bear interest at 2.500% per annum. We pay interest on the 2027 Notes and the 2030 Notes annually in arrears on December 1 of each year, beginning on December 1, 2016, to the record holders at the close of business on the preceding November 15 (whether or not such record date is a Business Day (as defined below)). We pay interest on the 2029 Notes annually in arrears on February 22 of each year, beginning on February 22, 2023, to the record holders at the close of business on the preceding record date on February 8 (whether or not such record date is a Business Day (as defined below)). Interest on the Notes is computed on the basis of the actual number of days in the period for which interest is being calculated and the actual number of days from and including the last date on which interest was paid on the Notes (or, in the case of the 2027 Notes and the 2030 Notes, December 1, 2015 if no interest has been paid on the 2027 Notes and the 2030 Notes, and, in the case of the 2029 Notes, February 22, 2022 if no interest has been paid on the 2029 Notes), to but excluding the next scheduled interest payment date. This payment convention is referred to as ACTUAL/ACTUAL (ICMA) as defined in the rulebook of the International Capital Market Association.

“Business Day” means any day:

- that is not Saturday or Sunday or any other day on which banking institutions are authorized or required by law, regulation or executive order to close in the City of New York or London; and
- that is a day on which the Trans-European Automated Real-time Gross Settlement Express Transfer System (the TARGET2 system), or any successor thereto, operates.

The Notes are represented by one or more global securities. Each global security will be deposited with, or on behalf of, a common depositary, and registered in the name of the nominee of the common depositary for the accounts of Clearstream and Euroclear.

### Payment on the Notes

All payments of principal of, the redemption price (if any), and interest and Additional Amounts (if any), on the Notes, are payable in euro. However, if on or after the date of the issuance of the Notes, the euro is unavailable to us due to the imposition of exchange controls or other circumstances beyond our control, or if the euro is no longer being used by the then member states of the European Monetary Union that have adopted the euro as their currency or for the settlement of transactions by public institutions or within the international banking community, all payments in respect of the Notes will be made in U.S. dollars until the euro is again available to us or so used. In that event, the amount payable on any date in euro will be converted into U.S. dollars at the rate mandated by the U.S. Federal Reserve Board as of the close of business on the second Business Day prior to the relevant payment date or, if the U.S. Federal Reserve Board has not mandated a rate of conversion, in the case of the 2027 Notes and 2030 Notes, on the basis of the most recent U.S. dollar/euro exchange rate published in The Wall Street Journal on or prior to the second Business Day prior to the relevant payment date, or if The Wall Street Journal has not published such exchange rate, such rate as determined in our sole discretion on the basis of the most recent U.S. dollar/

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euro market exchange rate available on or prior to the second Business Day prior to the relevant payment date, and, in the case of the 2029 Notes, on the basis of the most recent euro/dollar exchange rate available on or prior to the second Business Day prior to the relevant payment date, as reported by Bloomberg. Any payment in respect of the Notes so made in U.S. dollars will not constitute an event of default under the Notes or the indenture governing the Notes. Neither the trustee nor any paying agent shall have any responsibility whatsoever for any calculation or conversion in connection with the foregoing.

#### **Optional Redemption**

Prior to September 1, 2027 in the case of the 2027 Notes (three months prior to the maturity date of the 2027 Notes), November 22, 2028 (three months prior to the maturity date of the 2029 Notes) and September 1, 2030 in the case of the 2030 Notes (three months prior to the maturity date of the 2030 Notes) (each, a “Par Call Date”), we may redeem each of the 2027 Notes, 2029 Notes and 2030 Notes at our option, at any time in whole or from time to time in part, at a redemption price equal to the greater of:

- 100% of the principal amount of the Notes to be redeemed; or
- the sum of the present values of the remaining scheduled payments of principal and interest on the Notes to be redeemed, and in the case of the 2029 Notes, assuming the 2029 Notes matured on the applicable Par Call Date, (exclusive of interest accrued to the date of redemption) discounted to the date of redemption on an annual basis (ACTUAL/ACTUAL (ICMA)) at a rate equal to the applicable Bund Rate (as defined below), plus 25 basis points in the case of the 2027 Notes, plus 15 basis points in the case of the 2029 Notes and plus 30 basis points in the case of the 2030 Notes.

In each case, we will pay accrued and unpaid interest on the principal amount being redeemed to the date of redemption.

On or after September 1, 2027 in the case of the 2027 Notes (three months prior to the maturity date of the 2027 Notes), November 22, 2028 in the case of the 2029 Notes (three months prior to the maturity date of the 2029 Notes) and September 1, 2030 in the case of the 2030 Notes (three months prior to the maturity date of the 2030 Notes), the 2027 Notes and 2030 Notes may be redeemed, in whole or in part, at our option, at any time or from time to time, on notice given not more than 60 days, if the 2027 Notes and 2030 Notes are being redeemed in full, or 45 days, if the 2027 Notes and 2030 Notes are being redeemed in part, nor less than 30 days, prior to the date of redemption, at a redemption price equal to 100% of the principal amount of the 2027 Notes and 2030 Notes to be redeemed plus accrued and unpaid interest to, but excluding, the redemption date, and the 2029 Notes may be redeemed, in whole or in part, at our option, at any time or from time to time, at a redemption price equal to 100% of the principal amount of the 2029 Notes to be redeemed plus accrued and unpaid interest to, but excluding, the redemption date.

“Bund Rate” means the yield to maturity, expressed as a percentage (rounded to three decimal places, with 0.0005 being rounded upwards), on the third Business Day prior to the date fixed for redemption, of the Reference Bond on the basis of the middle market price of the Reference Bond prevailing at 11:00 a.m. (London time) on such Business Day as determined by the Independent Investment Banker.

“Independent Investment Banker” means one of the Reference Bond Dealers that we appoint to act as the Independent Investment Banker from time to time.

“Reference Bond” means, in relation to any Bund Rate calculation, a German government bond whose maturity is closest to, in the case of the 2027 Notes and 2030 Notes, the maturity of the 2027 Notes and 2030 Notes, and, in the case of the 2029 Notes, the Par Call Date of the 2029 Notes, or if the Independent Investment Banker considers that such similar bond is not in issue, such other German government bond as the Independent Investment Banker, with the advice of three brokers of, and/or market makers in, German government bonds selected by the Independent Investment Banker, determine to be appropriate for determining the Bund Rate.

“Reference Bond Dealer” means (A), in the case of the 2027 Notes and 2030 Notes, Barclays Bank PLC, Citigroup Global Markets Limited, Deutsche Bank AG, London Branch (not in its capacity as common depositary) and Merrill Lynch International (or their respective affiliates that are Primary Bond Dealers), and their respective successors, and, in the case of the 2029 Notes, Deutsche Bank AG, London Branch (not in its capacity as common depositary) and Barclays Bank PLC, HSBC Bank plc and NatWest Markets Plc (or their respective affiliates that are Primary Bond Dealers), and their respective successors and (B) any other broker of, and/or market maker in, German government bonds (a “Primary Bond Dealer”) selected by us.

In the case of the 2027 Notes and 2030 Notes, notice of redemption will be mailed or electronically delivered at least 30 but not more than 60 days before the redemption date to each holder of record of the 2027 Notes and 2030 Notes to be redeemed at its registered address. In the case of the 2029 Notes, notice of redemption will be mailed or electronically delivered at least 10 days but not more than 60 days before the redemption date to each holder of record of the 2029 Notes to be redeemed at its registered address, except that notice may be given more than 60 days prior to the date fixed for redemption if the notice is issued in connection with a defeasance, covenant defeasance or satisfaction and discharge. No Notes of €100,000 or less can be redeemed in part. The notice of redemption for the Notes will state, among other things, the amount of Notes to be redeemed, the redemption date, the manner in which the redemption price will be calculated and the place or places that payment will be made upon presentation and surrender of Notes to be redeemed. Unless we default in the payment of the redemption price, interest will cease to accrue on any Notes that have been called for redemption at the redemption date. If less than all of the Notes are to be redeemed, and the Notes are global notes, the Notes to be redeemed will be selected by Clearstream or Euroclear in accordance with their standard procedures. If the Notes to be redeemed are not global notes then held by Clearstream or Euroclear, selection of the Notes for redemption will be made by the trustee in accordance with its standard procedures, including by lot or pro rata. A new note in principal amount equal to the unredeemed portion thereof will be issued in the name of the holder thereof upon cancellation of the original note.

#### **Payment of Additional Amounts**

All payments of principal and interest in respect of the Notes will be made free and clear of, and without deduction or withholding for or on account of, any present or future taxes, duties, assessments or other similar governmental charges required to be deducted or withheld by the United States or any political subdivision or taxing authority of or in the United States (collectively, “Taxes”), unless such withholding or deduction is required by law.

In the event any such withholding or deduction for Taxes on payments by us in respect of the Notes is required, we will, subject to the limitations described below, pay such additional amounts (“Additional Amounts”) on the Notes as will result in receipt by each beneficial owner of a Note that is not a U.S. Person (as defined below) of such amounts (after all such withholding or deduction), as would have been received by such beneficial owner had no such withholding or deduction been required. We will not be required, however, to make any payment of Additional Amounts for or on account of:

- a) any Tax that would not have been imposed but for (1) the existence of any present or former connection (other than a connection arising solely from the ownership of those Notes or the receipt of payments in respect of those Notes) between a holder of a Note (or the beneficial owner for whose benefit such holder holds such Note), or between a fiduciary, settlor, beneficiary of, member or shareholder or other equity owner of, or possessor of a power over, that holder or beneficial owner (if that holder or beneficial owner is an estate, trust, partnership, corporation or other entity) and the United States, including that holder or beneficial owner, or that fiduciary, settlor, beneficiary, member, shareholder or possessor, being or having been a citizen or resident or treated as a resident of the United States or being or having been engaged in trade or business or present in the United States or having had a permanent establishment in the United States, (2) the failure of a beneficial owner or holder of the Notes to comply with any certification, information, documentation or other reporting requirements concerning the nationality, residence, identity or connections with the United States of the beneficial owner or holder of the Notes that such beneficial owner or holder is legally able to comply with (including, but not limited to, the requirement to provide Internal Revenue Service Forms W-8BEN, W-8BEN-E, W-8ECI, or any subsequent versions thereof or successor thereto, and including, without limitation, any documentation requirement under an applicable income tax treaty) or (3) the presentation of a Note for payment on a date more than 30 days after the later of the date on which that payment becomes due and payable and the date on which payment is duly provided for, except to the extent that the holder or beneficial owner would have been entitled to such Additional Amounts on presenting such Note on any date during such 30-day period;
  - b) any estate, inheritance, gift, sales, transfer, capital gains, excise, personal property, wealth or similar Tax;
  - c) any Tax imposed by reason of the beneficial owner’s past or present status as a passive foreign investment company with respect to the United States, a controlled foreign corporation with respect to the United States, a foreign tax exempt organization with respect to the United States or a personal holding company with respect to the United States or as a corporation that accumulates earnings to avoid U.S. federal income tax;
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- d) any Tax which is payable otherwise than by withholding or deducting from payment of principal of or premium, if any, or interest on such Notes;
- e) any Tax required to be withheld by any paying agent from any payment of principal of and premium, if any, or interest on any Note if that payment can be made without withholding by any other paying agent;
- f) any Tax imposed on interest received by (1) a 10-percent shareholder (as defined in Section 871(h)(3)(B) of the U.S. Internal Revenue Code of 1986, as amended (the “Code”), and the regulations that may be promulgated thereunder) of us, (2) a controlled foreign corporation that is related to us within the meaning of Section 864(d)(4) of the Code, or (3) a bank receiving interest described in Section 881(c)(3)(A) of the Code, to the extent such Tax would not have been imposed but for the beneficial owner’s status as described in clauses (1) through (3) of this paragraph (f);
- g) in the case of the 2027 Notes and 2030 Notes, any withholding or deduction that is required to be made pursuant to the European Council Directive 2003/48/EC on the taxation of savings income (the “Savings Directive”) or any other European Union directive amending, supplementing or replacing the Savings Directive, or any law implementing or complying with, or introduced in order to conform to, the Savings Directive or other European Union directives;
- h) any Tax required to be withheld or deducted under Sections 1471 through 1474 of the Code (or any amended or successor version of such Sections that is substantively comparable) (“FATCA”), any regulations or other guidance thereunder, or any agreement (including any intergovernmental agreement) entered into in connection therewith; or any law, regulation or other official guidance enacted in any jurisdiction implementing FATCA or an intergovernmental agreement in respect of FATCA; or
- i) in the case of the 2027 Notes and 2030 Notes, any combination of items (a), (b), (c), (d), (e), (f), (g) and (h), and, in the case of the 2029 Notes, any combinations of items (a), (b), (c), (d), (e), (f) and (h);

nor will we pay any Additional Amounts to any beneficial owner or holder of Notes who is a fiduciary or partnership to the extent that a beneficiary or settlor with respect to that fiduciary or a member of that partnership or a beneficial owner thereof would not have been entitled to the payment of those Additional Amounts had that beneficiary, settlor, member or beneficial owner been the beneficial owner of those Notes.

As used in the preceding paragraph, “U.S. Person” means any individual who is a citizen or resident of the United States for U.S. federal income tax purposes, a corporation, partnership or other entity created or organized in or under the laws of the United States, any state of the United States or the District of Columbia (other than a partnership that is not treated as a United States person under any applicable U.S. Treasury regulations), or any estate or trust the income of which is subject to United States federal income taxation regardless of its source.

Any reference in the terms of the Notes to any amounts in respect of the Notes shall be deemed also to refer to any Additional Amounts which may be payable under this provision.

#### **Redemption for Tax Reasons**

We may redeem each series of the Notes at our option, in whole but not in part, at a redemption price equal to 100% of the principal amount of the Notes to be redeemed, together with any accrued and unpaid interest on the Notes to be redeemed to, but excluding, the redemption date, at any time, if:

- i. we have or will become obligated to pay Additional Amounts with respect to such series of notes as a result of any change in, or amendment to, the laws, regulations, treaties, or rulings of the United States or any political subdivision of or in the United States or any taxing authority thereof or therein affecting taxation, or any change in, or amendment to, the application, official interpretation, administration or enforcement of such laws, regulations, treaties or rulings (including a holding by a court of competent jurisdiction in the United States), which change or amendment is enacted (only in the case of the 2027 Notes and 2030 Notes), adopted (only in the case of the 2027 Notes and 2030 Notes), announced or becomes effective on or after the date of the issuance of the Notes; or
- ii. in the case of the 2027 Notes and 2030 Notes, on or after the date of the issuance of the 2027 Notes and 2030 Notes, any action is taken by a taxing authority of, or any action has been brought in a court of competent jurisdiction in, the United States or any political subdivision of or in the United States or any taxing authority thereof or therein,

including any of those actions specified in clause (i) above, whether or not such action was taken or brought with respect to us, or there is any change, amendment, clarification, application or interpretation of such laws, regulations, treaties or rulings, which in any such case, will result in a material probability that we will be required to pay Additional Amounts with respect to such Notes (it being understood that such material probability will be deemed to result if the written opinion of independent tax counsel described in clause (b) below to such effect is delivered to the trustee and the paying agent).

in the case of the 2029 Notes, we have or will become obligated to pay Additional Amounts with respect to the 2029 Notes as a result of any change in, or amendment to, the existing official written position or the introduction of a written official position regarding the application, administration or interpretation of such laws, treaties, regulations or rulings (including a holding, judgment or order by a court of competent jurisdiction or a change in published administrative guidance) in any political subdivision of or in the United States, which change or amendment is announced or becomes effective on or after the date of the issuance of the 2029 Notes (it being understood that such obligation will be deemed to result if the written opinion of independent tax counsel described in clause (b) below to such effect is delivered to the trustee and the paying agent).

Notice of any redemption will be mailed, or delivered electronically if the Notes are held by any depositary (in accordance with such depositary's customary procedures), at least 30 days but not more than 60 days before the redemption date to each registered holder of the Notes to be redeemed; provided, however, that the notice of redemption shall not be given earlier than 90 days before the earliest date on which we would be obligated to pay such Additional Amounts if a payment in respect of the Notes were then due.

Prior to the mailing or delivery of any notice of redemption pursuant to this section "Redemption for Tax Reasons," we will deliver to the trustee and the paying agent:

- a) a certificate signed by one of our officers stating that we are entitled to effect such redemption and setting forth a statement of facts showing that the conditions precedent to our right to so redeem have occurred, and
- b) a written opinion of independent tax counsel of nationally recognized standing to the effect that we have or will become obligated to pay such Additional Amounts as a result of such change or amendment or, in the case of the 2027 Notes and 2030 Notes, that there is a material probability that we will be required to pay Additional Amounts as a result of such action, change, amendment, clarification, application or interpretation, as the case may be.

## **Covenants**

The indenture sets forth limited covenants, including the covenant described below, that apply to the Notes

### ***Consolidation, Merger and Sale of Assets***

The indenture provides that we may consolidate with or merge with or into any other person, and may sell, transfer, lease or convey all or substantially all of our properties and assets to another person, provided that the following conditions are satisfied:

- we are the continuing entity, or the resulting, surviving or transferee person (the "Successor") is a corporation, partnership, trust or other entity organized and validly existing under the laws of any domestic or foreign jurisdiction and the Successor (if not us) will expressly assume, by supplemental indenture, all of our obligations under the debt securities and the indenture and, for each security that by its terms provides for conversion, provide for the right to convert that security in accordance with its terms;
- immediately after giving effect to that transaction, no default or event of default under the indenture has occurred and is continuing; and
- if requested, the trustee receives from us, if requested, an officer's certificate and an opinion of counsel that the merger, consolidation, transfer, sale, lease or conveyance and the supplemental indenture, as the case may be, complies with the applicable provisions of the indenture.

If we consolidate or merge with or into any other person or sell, transfer, lease or convey all or substantially all of our properties and assets in accordance with the indenture, the Successor will be substituted for us under the indenture, with the same effect as if it had been an original party to the indenture. As a result, the Successor may exercise our rights and powers under the indenture, and we will be released from all our liabilities and obligations under the indenture and the debt securities.

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For purposes of this covenant, “person” means any individual, corporation, partnership, limited liability company, joint venture, association, joint-stock company, trust, unincorporated organization or government or any agency or political subdivision thereof or any other entity.

#### **No Sinking Fund**

The Notes will not be entitled to the benefit of any sinking fund.

#### **Discharge, Defeasance and Covenant Defeasance**

We may discharge certain obligations to holders of any series of the Notes that have not already been delivered to the trustee for cancellation and that either have become due and payable or will become due and payable within one year (or scheduled for redemption within one year) by depositing with the trustee, in trust, funds in euros or European Government Obligations (as defined below), or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under “-Payment on the Notes,” in U.S. dollars or U.S. government obligations, or both) in an amount sufficient to pay the entire indebtedness including the principal and premium, if any, and interest to the date of deposit (if such series of Notes have become due and payable) or to the maturity thereof or the redemption date of such series of Notes, as the case may be. We may direct the trustee, and in the case of the 2029 Notes, in writing, to invest those funds in European Government Obligations with a maturity of one year or less or in a money market fund that invests solely in short-term European Government Obligations.

The indenture provides that we may elect either (1) to defease and be discharged from any and all obligations with respect to any series of the Notes (except for, among other things, obligations to register the transfer or exchange of such series of Notes, to replace temporary or mutilated, destroyed, lost or stolen Notes of such series, to maintain an office or agency with respect to such series of Notes and to hold moneys for payment in trust) (“legal defeasance”) or (2) to be released from our obligations to comply with the restrictive covenants under the indenture, and any omission to comply with those obligations will not constitute a default or an event of default with respect to such series of Notes and certain covenants will no longer be applied (“covenant defeasance”). Legal defeasance or covenant defeasance, as the case may be, will be conditioned upon, among other things, the irrevocable deposit by us with the trustee, in trust, of an amount in euros or European Government Obligations, or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under “-Payment on the Notes,” in U.S. dollars or U.S. government obligations, or both) applicable to such series of Notes which through the scheduled payment of principal and interest in accordance with their terms will provide money in an amount sufficient to pay the principal of and premium, if any, and interest on the Notes of such series on the scheduled due dates therefor.

If we effect legal defeasance or covenant defeasance with respect to any series of the Notes, the amount in euros or European Government Obligations, or both, (or, if at the time of such deposit, all payments in respect of the Notes are required to be made in U.S. dollars as described under “-Payment on the Notes,” in U.S. dollars or U.S. government obligations, or both) on deposit with the trustee will be sufficient, in the opinion of a nationally recognized firm of independent accountants, to pay amounts due on the Notes of such series at the time of the stated maturity but may not be sufficient to pay amounts due on the Notes of such series at the time of the acceleration resulting from that event of default. However, we would remain liable to make payment of amounts due at the time of acceleration.

We will be required to deliver to the trustee an opinion of counsel that the deposit and related defeasance will not cause the holders and beneficial owners of the series of Notes being defeased to recognize income, gain or loss for U.S. federal income tax purposes. If we elect legal defeasance, that opinion of counsel must be based upon a ruling from the U.S. Internal Revenue Service or a change in law to that effect.

We may exercise our legal defeasance option notwithstanding our prior exercise of our covenant defeasance option.

“European Government Obligations” means (1) direct obligations of the Federal Republic of Germany, where the timely payment or payments thereunder are supported by the full faith and credit of the Federal Republic of Germany or (2) obligations of a person controlled or supervised by and acting as an agency or instrumentality of the Federal Republic of Germany, where the timely payment or payments thereunder are unconditionally guaranteed as a full faith and credit obligation by the Federal Republic of Germany, which, in either case under clauses (1) or (2) are not callable or redeemable at the option of the issuer thereof.

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## Events of Default

Each of the following events are defined in the indenture as an “event of default” (whatever the reason therefor and whether or not it will be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body) with respect to the debt securities of any series (including for each series of the Notes):

(1) default in the payment of any installment of interest on any debt securities of that series for 30 days after becoming due;

(2) default in the payment of principal of or premium, if any, on any debt securities of that series when it becomes due and payable at its stated maturity, upon optional redemption, upon declaration or otherwise;

(3) default in the deposit of any sinking fund payment, when and as due by the terms of any debt securities of that series;

(4) default in the performance, or breach, of any covenant or agreement of ours in the indenture with respect to the debt securities of that series (other than as referred to in clause (1), (2) or (3) above), which continues for a period of 90 days after written notice to us by the trustee or to us and the trustee by the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series;

(5) we, pursuant to or within the meaning of the Bankruptcy Law:

- commence a voluntary case or proceeding;
- consent to the entry of an order for relief against us in an involuntary case or proceeding;
- consent to the appointment of a Custodian of us or for all or substantially all of our property;
- make a general assignment for the benefit of our creditors;
- file a petition in bankruptcy or answer or consent seeking reorganization or relief;
- consent to the filing of a petition in bankruptcy or the appointment of or taking possession by a Custodian; or
- take any comparable action under any foreign laws relating to insolvency;

(6) a court of competent jurisdiction enters an order or decree under any Bankruptcy Law that:

- is for relief against us in an involuntary case, or adjudicates us insolvent or bankrupt;
- appoints a Custodian of us or for all or substantially all of our property; or
- orders the winding-up or liquidation of us (or any similar relief is granted under any foreign laws) and the order or decree remains unstayed and in effect for 90 days; or

(7) any other event of default provided with respect to debt securities of that series occurs as specified in a supplemental indenture.

“**Bankruptcy Law**” means Title 11, United States Code or any similar federal or state or foreign law for the relief of debtors.

“**Custodian**” means any custodian, receiver, trustee, assignee, liquidator or other similar official under any Bankruptcy Law.

If an event of default with respect to debt securities of any series (other than an event of default relating to certain events of bankruptcy, insolvency, or reorganization of us) occurs and is continuing, the trustee for that series by notice to us, or the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series by notice to us and the trustee, may, and the trustee at the request of these holders will, declare the principal of and premium, if any, and accrued and unpaid interest on all the debt securities of that series to be due and payable. Upon a declaration of this type, that principal, premium and accrued and unpaid interest will be due and payable immediately. If an event of default relating to certain events of bankruptcy, insolvency or reorganization of us occurs and is continuing, the principal of and premium, if any, and accrued and unpaid interest on the debt securities of that series will become and be immediately due and payable without any declaration or other act on the part of the trustee of that series or any holders. The holders of not less than a majority in aggregate principal amount of the outstanding debt securities of any series may rescind a declaration of acceleration and its consequences, if we have deposited certain sums with the trustee and all events of default with respect to the debt securities of that series, other

than the non-payment of the principal or interest which have become due solely by that acceleration, have been cured or waived, as provided in the indenture.

An event of default for a particular series of debt securities does not necessarily constitute an event of default for any other series of debt securities issued under the indenture.

We are required to furnish the trustee annually a statement by certain of our officers to the effect that, to the best of their knowledge, we are not in default in the fulfillment of any of our obligations under the indenture or, if there has been a default in the fulfillment of any obligation of us, specifying each default.

No holder of any debt securities of any series will have any right to institute any judicial or other proceeding with respect to the indenture, or for the appointment of a receiver or trustee, or for any other remedy unless:

(1) an event of default has occurred and is continuing and that holder has given the trustee prior written notice of that continuing event of default with respect to the debt securities of that series;

(2) the holders of not less than 25% of the aggregate principal amount of the outstanding debt securities of that series have requested the trustee to institute proceedings in respect of that event of default;

(3) the trustee has been offered indemnity reasonably satisfactory to it against its costs, expenses and liabilities in complying with that request;

(4) the trustee has failed to institute proceedings 60 days after the receipt of that notice, request and offer of indemnity; and

(5) no direction inconsistent with that written request has been given for 60 days by the holders of a majority in aggregate principal amount of the outstanding debt securities of that series.

The holders of a majority in aggregate principal amount of outstanding debt securities of a series will have the right, subject to certain limitations, to direct the time, method and place of conducting any proceeding for any remedy available to the trustee with respect to the debt securities of that series or exercising any trust or power conferred to the trustee, and to waive certain defaults. The indenture provides that if an event of default occurs and is continuing, the trustee will exercise those of its rights and powers under the indenture, and use the same degree of care and skill in their exercise, as a prudent person would exercise or use under the circumstances in the conduct of that person's own affairs. Subject to those provisions, the trustee will be under no obligation to exercise any of its rights or powers under the indenture at the request of any of the holders of the debt securities of a series unless they will have offered to the trustee security or indemnity satisfactory to the trustee against the costs, expenses and liabilities which might be incurred by it in compliance with that request.

Notwithstanding the foregoing, the holder of any debt security will have an absolute and unconditional right to receive payment of the principal of and premium, if any, and interest on that debt security on or after the due dates expressed in that debt security and to institute suit for the enforcement of payment.

#### **Modification and Waivers**

Modification and amendments of the indenture and the debt securities of any series (including for each series of the Notes) may be made by us and the trustee with the consent of the holders of not less than a majority in aggregate principal amount of the outstanding debt securities of that series affected thereby; provided, however, that no modification or amendment may, without the consent of the holder of each outstanding debt security of that series affected thereby:

- change the stated maturity of the principal of, or installment of interest on, any debt security;
  - reduce the principal amount of any debt security or reduce the amount of the principal of any debt security which would be due and payable upon a declaration of acceleration of the maturity thereof or reduce the rate of interest on any debt security;
  - reduce any premium payable on the redemption of any debt security or change the date on which any debt security may or must be redeemed;
  - change the coin or currency in which the principal of or premium, if any, or interest on any debt security is payable;
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- impair the right of any holder to institute suit for the enforcement of any payment on or after the stated maturity of any debt security (or, in the case of redemption, on or after the redemption date);
- reduce the percentage in principal amount of the outstanding debt securities, the consent of whose holders is required in order to take certain actions;
- reduce the requirements for quorum or voting by holders of debt securities in the indenture or the debt security;
- modify any of the provisions in the indenture regarding the waiver of past defaults and the waiver of certain covenants by the holders of debt securities except to increase any percentage vote required or to provide that certain other provisions of the indenture cannot be modified or waived without the consent of the holder of each debt security affected thereby; or
- make any change that adversely affects in any material respect the right to convert or exchange any debt security or decreases the conversion or exchange rate or increases the conversion price of any convertible or exchangeable debt security, unless that decrease or increase is permitted by the terms of the debt securities; or
- modify any of the above provisions.

We and the trustee may, without the consent of any holders, modify or amend the terms of the indenture and the debt securities of any series with respect to the following:

- to add to our covenants for the benefit of holders of the debt securities of all or any series or to surrender any right or power conferred upon us;
- to evidence the succession of another person to, and the assumption by the successor of our covenants, agreements and obligations under, the indenture pursuant to the covenant described under “-Covenants-Consolidation, Merger and Sale of Assets”;
- to add any additional events of default for the benefit of holders of the debt securities of all or any series;
- to add one or more guarantees for the benefit of holders of the debt securities;
- to secure the debt securities pursuant to the covenants of the indenture;
- to add or appoint a successor or separate trustee or other agent;
- to provide for the issuance of additional debt securities of any series;
- to establish the form or terms of debt securities of any series as permitted by the indenture;
- to comply with the rules of any applicable securities depository;
- to provide for uncertificated debt securities in addition to or in place of certificated debt securities;
- to add to, change or eliminate any of the provisions of the indenture in respect of one or more series of debt securities; provided that any such addition, change or elimination (a) shall neither (1) apply to any debt security of any series created prior to the execution of that supplemental indenture and entitled to the benefit of that provision nor (2) modify the rights of the holder of any debt security with respect to that provision or (b) shall become effective only when there is no debt security described in clause (1) outstanding;
- to comply with requirements of the SEC in order to effect or maintain the qualification of the indenture under the Trust Indenture Act of 1939, as amended;
- to conform any provision of the indenture, any supplemental indenture, one or more series of debt securities or any related guarantees or security documents to the description of such securities contained in our prospectus, prospectus supplement, offering memorandum or similar document with respect to the offering of the securities of such series to the extent that such description was intended to be a verbatim recitation of a provision in the indenture, such securities or any related guarantees or security documents;
- to cure any ambiguity, omission, defect or inconsistency; or
- to change any other provision; provided that the change does not adversely affect the interests of the holders of debt securities of any series in any material respect.

The holders of at least a majority in aggregate principal amount of the outstanding debt securities of any series may, on behalf of the holders of all debt securities of that series, waive compliance with certain restrictive provisions of the indenture. The

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holders of not less than a majority in aggregate principal amount of the outstanding debt securities of a series may, on behalf of the holders of all debt securities of that series, waive any past default and its consequences under the indenture with respect to the debt securities of that series, except a default (1) in the payment of principal of or premium, if any, or interest on debt securities of that series or (2) in respect of a covenant or provision of the indenture that cannot be modified or amended without the consent of the holder of each debt security of that series. Upon any waiver, that default will cease to exist, and any event of default arising therefrom will be deemed to have been cured, for every purpose of the indenture; however, no waiver will extend to any subsequent or other default or event of default or impair any rights consequent thereon.

**\$8,000,000,000**  
**FOURTH AMENDED AND RESTATED CREDIT AGREEMENT**  
**Dated as of November 10, 2022**

**among**

**MASTERCARD INCORPORATED,**  
**as Company**

**The Subsidiary Borrowers from Time to Time Parties Hereto**

**The Several Lenders from Time to Time Parties Hereto**

**CITIBANK, N.A.,**  
**as Managing Administrative Agent**

**JPMORGAN CHASE BANK, N.A.,**  
**as Administrative Agent**

**CITIBANK, N.A. and JPMORGAN CHASE BANK, N.A.,**  
**as Joint Lead Arrangers, Joint Book Managers and Global Coordinators**

**BANK OF CHINA, NEW YORK BRANCH,**  
**as Joint Lead Arranger, Joint Book Manager, Syndication Agent and Regional Coordinator (Asia)**

**DEUTSCHE BANK SECURITIES INC.,**  
**as Joint Lead Arranger, Joint Book Manager, Syndication Agent and Joint Regional Coordinator (Europe)**

**U.S. BANK NATIONAL ASSOCIATION,**  
**as Joint Lead Arranger, Joint Book Manager, Syndication Agent and Regional Coordinator (North America)**

**BOFA SECURITIES, INC.,**  
**as Joint Lead Arranger, Joint Book Manager and Joint Regional Coordinator (Americas)**

**BANK OF AMERICA, N.A.,**  
**as Syndication Agent**

**WELLS FARGO SECURITIES, LLC,**  
**as Joint Lead Arranger, Joint Book Manager, and Joint Regional Coordinator (Americas)**

**WELLS FARGO BANK, NATIONAL ASSOCIATION,**  
**as Syndication Agent**

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**LLOYDS BANK CORPORATE MARKETS PLC,**  
**as Joint Lead Arranger, Joint Book Manager, Syndication Agent and Joint Regional Coordinator (Europe)**

**BARCLAYS BANK PLC, COMMERZBANK AG, NEW YORK BRANCH, CRÉDIT AGRICOLE CORPORATE AND  
INVESTMENT BANK, GOLDMAN SACHS BANK USA, HSBC BANK USA, N.A., INDUSTRIAL AND COMMERCIAL  
BANK OF CHINA LIMITED, NEW YORK BRANCH, MIZUHO BANK, LTD., MORGAN STANLEY SENIOR  
FUNDING, INC., MUFG BANK, LTD., NATIONAL WESTMINSTER BANK PLC, PNC BANK, N.A., SANTANDER  
BANK, N.A., and SOCIÉTÉ GÉNÉRALE**  
**as Joint Lead Arrangers and Joint Book Managers**

**BARCLAYS BANK PLC, COMMERZBANK AG, NEW YORK BRANCH, CRÉDIT AGRICOLE CORPORATE AND  
INVESTMENT BANK, GOLDMAN SACHS BANK USA, HSBC BANK USA, N.A., INDUSTRIAL AND COMMERCIAL  
BANK OF CHINA LIMITED, NEW YORK BRANCH, MIZUHO BANK, LTD., MORGAN STANLEY SENIOR  
FUNDING, INC., MUFG BANK, LTD., NATIONAL WESTMINSTER BANK PLC, PNC BANK, N.A., SANTANDER  
BANK, N.A., and SOCIÉTÉ GÉNÉRALE**  
**as Documentation Agents**

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## SCHEDULES

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## EXHIBITS

- A Form of Revolving Credit Note
- B Form of Swing Line Note
- C Form of Closing Certificate
- D Form of Swing Line Loan Participation Certificate
- E-1 Form of Subsidiary Borrower Designation
- E-2 Form of Subsidiary Borrower Termination Notice
- F-1 Form of Opinion of General Counsel of the Company
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- G Form of Borrowing Notice
- H Form of Assignment and Acceptance
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- L Form of Swing Line Borrowing Notice

FOURTH AMENDED AND RESTATED CREDIT AGREEMENT, dated as of November 10, 2022 among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties hereto, the several banks and other financial institutions from time to time parties to this Agreement (the “Lenders”), CITIBANK, N.A., as managing administrative agent for the Lenders hereunder (in such capacity, the “Managing Administrative Agent”), and JPMORGAN CHASE BANK, N.A., as administrative agent for the Lenders hereunder (in such capacity, the “Administrative Agent”).

WHEREAS, the Company, the Managing Administrative Agent, the Administrative Agent and the lenders party thereto (the “Existing Lenders”) entered into a Third Amended and Restated Credit Agreement dated as of November 14, 2019 (as amended by Amendment No. 1 dated as of November 13, 2021 and as further amended, supplemented or otherwise modified, and as in effect immediately before giving effect to, the amendment and restatement thereof contemplated hereby to occur on and as of the Fourth Restatement Effective Date, the “Existing Credit Agreement”);

WHEREAS, the Company has requested that the Existing Lenders, the Managing Administrative Agent and the Administrative Agent, as applicable, agree to amend and restate the Existing Credit Agreement in its entirety pursuant to this Agreement, and the Existing Lenders, the Managing Administrative Agent and the Administrative Agent are willing to do so, on the terms and subject to the conditions contained herein;

WHEREAS, Citibank, N.A., JPMorgan Chase Bank, N.A. and the other Lenders party hereto (together with Existing Lenders that are not Lenders but have consented hereto) constitute the Managing Administrative Agent, the Administrative Agent and the Lenders, as applicable, under (and each as defined in) the Existing Credit Agreement immediately prior to the Fourth Restatement Effective Date for purposes of Section 9.1 of the Existing Credit Agreement and have consented to such amendment and restatement of the Existing Credit Agreement;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by the parties hereto, such parties hereby agree that the Existing Credit Agreement shall, upon the satisfaction of the conditions precedent specified in Section 4.1 on the Fourth Restatement Effective Date, be amended and restated in its entirety to read as follows:

## SECTION 1. DEFINITIONS

1.1 Defined Terms. As used in this Agreement, the following terms shall have the following meanings:

“ABR”: a fluctuating interest rate per annum in effect from time to time, which rate per annum shall at all times be equal to the highest of:

- (i) the rate of interest announced publicly by Citibank in New York City from time to time as Citibank’s base rate;
- (ii) for any day, 1.00% per annum above one-month Adjusted Term SOFR, on such day; and
- (iii) for any day, 0.50% per annum above the New York Fed Bank Rate in effect on such day.

Each change in any interest rate provided for herein based upon the ABR resulting from a change in the ABR shall take effect at the time of such change in the ABR.

“ABR Borrowing”: as to any Borrowing, the ABR Loans comprising such Borrowing.

“ABR Loans”: Revolving Credit Loans hereunder denominated in Dollars and the rate of interest applicable to which is based upon the ABR.

“ABR Term SOFR Determination Date”: as defined in the definition of “Term SOFR”.

“Adjusted Term SOFR”: for purposes of any calculation, the rate per annum equal to (a) Term SOFR for such calculation plus (b) the Term SOFR Adjustment; provided that if Adjusted Term SOFR as so determined shall ever be less than 0.00%, then Adjusted Term SOFR shall be deemed to be 0.00%.

“Administrative Agent”: as defined in the preamble hereof.

“Administrative Questionnaire”: an Administrative Questionnaire in a form supplied by the Managing Administrative Agent.

“Affected Currency”: as defined in subsection 2.11(a).

“Affiliate”: as to any Person, any other Person (other than a Subsidiary) which, directly or indirectly, is in control of, is controlled by, or is under common control with, such Person. For purposes of this definition, “control” of a Person means the power, directly or indirectly, either to (a) vote 25% or more of the securities having ordinary voting power for the election of directors of such Person or (b) direct or cause the direction of the management and policies of such Person, whether by contract or otherwise.

“Agreement”: this Fourth Amended and Restated Credit Agreement, as further amended, supplemented or otherwise modified from time to time.

“Anti-Corruption Laws”: all laws, rules, and regulations of any jurisdiction applicable to the Company or its Subsidiaries from time to time concerning or relating to bribery, money laundering or corruption (including, without limitation, the Foreign Corrupt Practices Act).

“Applicable Facility Fee Rate”: for any Rating Level Period, the rate per annum set forth below opposite the reference to such Rating Level Period:

<u>Rating Level Period</u>	<u>Applicable Facility Fee Rate</u>
Rating Level 1 Period	0.04%

Rating Level 2 Period	0.05%
Rating Level 3 Period	0.06%
Rating Level 4 Period	0.08%
Rating Level 5 Period	0.09%

Each change in the Applicable Facility Fee Rate resulting from a Rating Level Change shall be effective on the effective date of such Rating Level Change.

“Applicable Margin”: for any Loan of any Type and while any particular Rating Level Period applies, the rate per annum set forth below opposite the reference to the relevant Rating Level Period for Loans of such Type:

<u>Rating Level Period</u>	<u>Applicable Margin</u>	
	<u>Term Benchmark Loans</u>	<u>ABR Loans</u>
Rating Level 1 Period	0.585%	0.000%
Rating Level 2 Period	0.700%	0.000%
Rating Level 3 Period	0.815%	0.000%
Rating Level 4 Period	0.920%	0.000%
Rating Level 5 Period	1.035%	0.035%

Each change in the Applicable Margin resulting from a Rating Level Change shall be effective on the effective date of such Rating Level Change.

“Article 55 BRRD”: Article 55 of Directive 2014/59/EU establishing a framework for the recovery and resolution of credit institutions and investment firms.

“Assignee”: as defined in subsection 9.6(c).

“Assignment and Acceptance”: an assignment and acceptance entered into by a Lender and an assignee (with the consent of any party whose consent is required by Section 9.6), and accepted by the Managing Administrative Agent, substantially in the form of Exhibit H or any other form approved by the Managing Administrative Agent.

“Available Commitment”: as to any Lender on any day, an amount equal to the excess, if any, of (a) the amount of such Lender’s Commitment then in effect over (b) the aggregate of (i) the aggregate principal amount of all Revolving Credit Loans made by such Lender then outstanding and (ii) an amount equal to the Swing Line Exposure of such Lender (including, as applicable (but without duplication), in its capacity as Swing Line Lender) (after giving effect to any repayment of Swing Line Loans on such day).



“Available Tenor”: as of any date of determination and with respect to the then-current Benchmark for any Currency, as applicable, (x) if such Benchmark is a term rate, any tenor for such Benchmark (or component thereof) that is or may be used for determining the length of an interest period pursuant to this Agreement or (y) otherwise, any payment period for interest calculated with reference to such Benchmark (or component thereof) that is or may be used for determining any frequency of making payments of interest calculated with reference to such Benchmark pursuant to this Agreement, in each case, as of such date and not including, for the avoidance of doubt, any tenor for such Benchmark that is then-removed from the definition of “Interest Period” pursuant to Section 2.11(e).

“Bail-In Action”: the exercise of any Write-Down and Conversion Powers by the applicable Resolution Authority in respect of any liability of a Financial Institution.

“Bail-In Legislation”: (i) with respect to any EEA Member Country implementing Article 55 of Directive 2014/59/EU of the European Parliament and of the Council of the European Union, the implementing law, regulation rule or requirement for such EEA Member Country from time to time which is described in the EU Bail-In Legislation Schedule and (ii) the U.K. Bail-In Legislation.

“Benchmark”: initially, (i) with respect to amounts denominated in Dollars, the Term SOFR Reference Rate, and (ii) with respect to any amounts denominated in EURO, EURIBO Rate; provided that if a replacement of an initial or subsequent Benchmark has occurred pursuant to Section 2.11(b), then “Benchmark” means the applicable Benchmark Replacement to the extent that such Benchmark Replacement has replaced such prior benchmark rate. Any reference to “Benchmark” shall include, as applicable, the published component used in the calculation thereof.

“Benchmark Replacement”: for any Benchmark Transition Event for any then-current Benchmark, the sum of: (a) the alternate benchmark rate that has been selected by the Managing Administrative Agent and the Borrower as the replacement for such Benchmark giving due consideration to (i) any selection or recommendation of a replacement benchmark rate or the mechanism for determining such a rate by the Relevant Governmental Body or (ii) any evolving or then-prevailing market convention for determining a benchmark rate as a replacement for such Benchmark for syndicated credit facilities denominated in the applicable Currency at such time and (b) the related Benchmark Replacement Adjustment; provided that, if such Benchmark Replacement as so determined would be less than the Floor, such Benchmark Replacement will be deemed to be the Floor for the purposes of this Agreement and the other Loan Documents.

“Benchmark Replacement Adjustment”: for any replacement of any then-current Benchmark with an Unadjusted Benchmark Replacement, the spread adjustment, or method for calculating or determining such spread adjustment, (which may be a positive or negative value or zero) that has been selected by the Managing Administrative Agent and the Borrower giving due consideration to (a) any selection or recommendation of a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement by the Relevant Governmental Body or (b) any evolving or then-prevailing market convention for determining a spread adjustment, or method for calculating or determining such spread adjustment, for the replacement of such Benchmark with the applicable Unadjusted Benchmark Replacement for syndicated credit facilities denominated in the applicable Currency at such time.

“Benchmark Replacement Date”: the earliest to occur of the following events with respect to the then-current Benchmark for any Currency:

(a) in the case of clause (a) or (b) of the definition of “Benchmark Transition Event,” the later of (i) the date of the public statement or publication of information referenced therein and (ii) the date on which the administrator of such Benchmark (or the published component used in the calculation thereof) permanently or indefinitely ceases to provide all Available Tenors of such Benchmark (or such component thereof); or

(b) in the case of clause (c) of the definition of “Benchmark Transition Event,” the first date on which such Benchmark (or the published component used in the calculation thereof) has been determined and announced by the regulatory supervisor for the administrator of such Benchmark (or such component thereof) to be non-representative; provided that such non-representativeness will be determined by reference to the most recent statement or publication referenced in such clause (c) and even if any Available Tenor of such Benchmark (or such component thereof) continues to be provided on such date.

For the avoidance of doubt, the “Benchmark Replacement Date” will be deemed to have occurred in the case of clause (a) or (b) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Event”: with respect to the then-current Benchmark for any Currency, the occurrence of one or more of the following events with respect to such Benchmark:

(a) a public statement or publication of information by or on behalf of the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof);

(b) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof), the Board, the New York Fed, the central bank for the Currency applicable to such Benchmark, an insolvency official with jurisdiction over the administrator for such Benchmark (or such component), a resolution authority with jurisdiction over the administrator for such Benchmark (or such component) or a court or an entity with similar insolvency or resolution authority over the administrator for such Benchmark (or such component), which states that the administrator of such Benchmark (or such component) has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof) permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor administrator that will continue to provide any Available Tenor of such Benchmark (or such component thereof); or

(c) a public statement or publication of information by the regulatory supervisor for the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that all Available Tenors of such Benchmark (or such component thereof) are not, or as of a specified future date will not be, representative.

For the avoidance of doubt, a “Benchmark Transition Event” will be deemed to have occurred with respect to any Benchmark if a public statement or publication of information set forth above has occurred with respect to each then-current Available Tenor of such Benchmark (or the published component used in the calculation thereof).

“Benchmark Transition Start Date”: with respect to any Benchmark, in the case of a Benchmark Transition Event, the earlier of (a) the applicable Benchmark Replacement Date and (b) if such Benchmark Transition Event is a public statement or publication of information of a prospective event, the 90th day prior to the expected date of such event as of such public statement or publication of information (or if the expected date of such prospective event is fewer than 90 days after such statement or publication, the date of such statement or publication).

“Benchmark Unavailability Period”: with respect to any then-current Benchmark for any Currency, the period (if any) (a) beginning at the time that a Benchmark Replacement Date with respect to such Benchmark has occurred if, at such time, no Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 2.11 and (b) ending at the time that a Benchmark Replacement has replaced such Benchmark for all purposes hereunder and under any Loan Document in accordance with Section 2.11.

“Beneficial Ownership Certification”: as defined in subsection 4.1(i).

“Beneficial Ownership Regulation”: 31 C.F.R. § 1010.230.

“Benefitted Lender”: as defined in Section 9.7(a).

“Benefit Plan”: any of (a) an “employee benefit plan” (as defined in ERISA) that is subject to Title I of ERISA, (b) a “plan” as defined in and subject to Section 4975 of the Code or (c) any Person whose assets include (for purposes of ERISA Section 3(42) or otherwise for purposes of Title I of ERISA or Section 4975 of the Code) the assets of any such “employee benefit plan” or “plan”.

“Board”: the Board of Governors of the Federal Reserve System of the United States (or any successor).

“Borrower” and “Borrowers”: the Company and each Subsidiary Borrower.

“Borrowing Date”: any Business Day specified in a notice pursuant to Sections 2.2 or 2.13 as a date on which any Borrower requests the Lenders or a Swing Line Lender, as the case may be, to make Loans hereunder.

“Business”: as defined in subsection 3.17(b).

“Business Day”: a day other than a Saturday, Sunday or other day on which commercial banks in New York City are authorized or required by law to close; provided, that if such day relates to a borrowing or continuation of, a payment or prepayment of principal of or interest on, or the Interest Period for, any Loan denominated in Euro, that is also a Target Operating Day.

“Capital Lease”: as applied to any Person, any lease of any property (whether real, personal or mixed) by that Person as lessee which, in conformity with GAAP, is, or is required to be, accounted for as a capital lease on the balance sheet of that Person.

“Capitalized Lease Obligations”: all obligations under Capital Leases of any Person, in each case taken at the amount thereof accounted for as liabilities in accordance with GAAP.

“Capital Stock”: any and all shares, interests, participations or other equivalents (however designated) of capital stock of a corporation, any and all equivalent ownership interests in a Person other than a corporation and any and all warrants or options to purchase any of the foregoing.

“Charges”: as defined in Section 9.22.

“Citibank”: Citibank, N.A.

“Code”: the Internal Revenue Code of 1986, as amended from time to time.

“Commitment”: as to any Lender, the obligation of such Lender to make Revolving Credit Loans to the Borrowers hereunder in an aggregate principal amount at any one time outstanding not to exceed the amount set forth opposite such Lender’s name in part (a) of Schedule 1.2, as such amount may be reduced or increased from time to time in accordance with the provisions of this Agreement. The aggregate amount of the Commitments of all Lenders on the date hereof is \$8,000,000,000.

“Commitment Increase Offer”: as defined in subsection 2.18(a).

“Commitment Increase Supplement”: as defined in subsection 2.18(c).

“Commitment Percentage”: as to any Lender at any time, the percentage which such Lender’s Commitment then constitutes of the aggregate Commitments (or, at any time after the Commitments shall have expired or terminated, the percentage which the aggregate principal amount of such Lender’s Revolving Credit Loans then outstanding constitutes of the aggregate principal amount of the Revolving Credit Loans then outstanding).

“Commitment Period”: the period from and including the date hereof to but not including the Revolving Credit Termination Date or such earlier date on which the Commitments shall terminate as provided herein.

“Commonly Controlled Entity”: an entity, whether or not incorporated, which is under common control with the Company within the meaning of Section 4001(a)(14) of ERISA or is part of a group which includes the Company and which is treated as a single employer under Section 414(b) or (c) of the Code.

“Company”: as defined in the preamble hereof.

“Confidential Information”: information that the Company or any of its Subsidiaries (or any of their representatives) furnishes to the Managing Administrative Agent or any Lender, but does not include any such information that is or becomes generally available to the public (other than as a result of a breach of this Agreement) or that was available to the Managing Administrative Agent or such Lender on a non-confidential basis prior to its being furnished by the Company or any of its Subsidiaries (other than as a result of a breach of this Agreement or to the extent obtained from a source known to the Managing Administrative Agent or such Lender to be bound by a confidentiality agreement with the Company or any of its Subsidiaries and to be in breach of such confidentiality agreement).

“Conforming Changes”: with respect to either the use or administration of Term SOFR or the use, administration, adoption or implementation of any Benchmark Replacement, any technical, administrative or operational changes (including changes to the definition of “ABR,” the definition of “Business Day,” the definition of “U.S. Government Securities Business Day,” the definition of “Interest Period,” the definition of “Relevant Rate” or any similar or analogous definition (or the addition of a concept of “interest period”), timing and frequency of determining rates and making payments of interest, timing of borrowing requests or prepayment, conversion or continuation notices, the applicability and length of lookback periods, the applicability of Section 2.17 and other technical, administrative or operational matters) that the Managing Administrative Agent decides in consultation with the Company may be appropriate to reflect the adoption and implementation of any such rate or to permit the use and administration thereof by the Managing Administrative Agent in a manner substantially consistent with market practice (or, if the Managing Administrative Agent decides in consultation with the Company that adoption of any portion of such market practice is not administratively feasible or if the Managing Administrative Agent determines in consultation with the Company that no market practice for the administration of any such rate exists, in such other manner of administration as the Managing Administrative Agent decides in consultation with the Company is reasonably necessary in connection with the administration of this Agreement and the other Loan Documents).

“Contractual Obligation”: as to any Person, any provision of any security issued by such Person or of any agreement, instrument or other undertaking to which such Person is a party or by which it or any of its property is legally bound.

“Currency”: with respect to any jurisdiction, the lawful money of such jurisdiction.

“Currency Valuation Notice”: as defined in subsection 2.6(b)(ii).

“Declined Amount”: as defined in subsection 2.18(a).

“Declining Lender”: as defined in subsection 2.18(a).

“Default”: any of the events specified in Section 7, whether or not any requirement for the giving of notice, the lapse of time, or both, or any other condition, has been satisfied.

“Defaulting Lender”: at any time, a Lender as to which the Managing Administrative Agent has notified the Company that (i) such Lender has failed to comply with its obligations under this Agreement to make a Loan, and/or make a payment to any Swing Line Lender and/or make a payment to the Managing Administrative Agent hereunder (each a “funding obligation”), in each case within two Business Days of the date required under the terms of the Loan Documents (unless such Lender notifies the Managing Administrative Agent in writing that such failure is the result of such Lender’s good faith determination that one or more conditions precedent to funding (each of which conditions precedent, together with any applicable default, shall be specifically identified in such writing) has not been satisfied (unless waived)), (ii) such Lender has notified the Managing Administrative Agent in writing, or has stated publicly, that it will not comply with any such funding obligation hereunder, or has defaulted on its funding obligations, or has stated publicly that it does not intend to comply with its funding obligations, under other loan agreements or credit agreements or other similar agreements generally (unless such writing or public statement relates to such Lender’s obligation to fund a Loan hereunder and indicates that such position is based on such Lender’s good faith determination that a condition precedent (specifically identified and including any applicable default), to funding a Loan cannot be satisfied (unless waived)), (iii) such Lender has, for not less than three Business Days, failed to confirm in writing to the Managing Administrative Agent and the Company, in response to a written request of the Managing Administrative Agent or the Company, that it will comply with its funding obligations hereunder, provided that such Lender shall cease to be a Defaulting Lender upon receipt of such confirmation by the Managing Administrative Agent and the Company, or (iv) a Lender Insolvency Event has occurred and is continuing with respect to such Lender (provided that neither the reallocation of funding obligations provided for in Section 2.21 as a result of a Lender’s being a Defaulting Lender nor the performance by Non-Defaulting Lenders of such reallocated funding obligations will cause the relevant Defaulting Lender to become a Non-Defaulting Lender) or such Lender has become the subject of a Bail-In Action, and provided, further, that a Lender shall not be a Defaulting Lender solely by virtue of the ownership or acquisition of any equity interest in that Lender or any direct or indirect parent company thereof by a Governmental Authority so long as such ownership interest does not result in or provide such Lender with immunity from the jurisdiction of courts within the United States or from the enforcement of judgments or writs of attachment on its assets or permit such Lender (or such Governmental Authority) to reject, repudiate, disavow or disaffirm any contracts or agreements made with such Lender. Any determination that a Lender is a Defaulting Lender under any one or more of clauses (i) through (iv) above will be made by the Managing Administrative Agent in its reasonable discretion acting in good faith. If the Company believes in good faith that a Lender should be determined by the Managing Administrative Agent to be a Defaulting Lender and so notifies the Managing Administrative Agent, citing the reasons therefor, the Managing Administrative Agent shall determine in its reasonable discretion acting in good faith whether or not such Lender is a Defaulting Lender. The Managing Administrative Agent will promptly send to all parties hereto a copy of any notice to the Company provided for in this definition.

“Dollar Equivalent”: with respect to any Loans denominated in Euros, the amount of Dollars that would be required to purchase the amount of Euros of such Loans on the date two Business Days prior to the date of such borrowing (or, in the case of any determination made under Section 2.6(b) or redenomination under the last sentence of Section 2.12(a), on the date of

determination or redenomination therein referred to), based upon the spot selling rate at which the Managing Administrative Agent offers to sell such Euros for Dollars in the London foreign exchange market at approximately 11:00 a.m., London time, for delivery two Business Days later.

“Dollars” and “\$”: dollars in lawful currency of the United States.

“EEA Member Country”: any of the member states of the European Union, Iceland, Liechtenstein, and Norway.

“Eligible Foreign Currency”: Euros, so long as at such time (a) such Currency is dealt with in the London interbank deposit market, (b) such Currency is freely transferable and convertible into Dollars in the international interbank market and (c) such currency is freely traded and readily available.

“Eligible Foreign Jurisdiction”: (a) on the Fourth Restatement Effective Date, Belgium and Singapore and (b) thereafter, each additional jurisdiction of organization of a Non-U.S. Subsidiary that has become a Subsidiary Borrower party hereto pursuant to Section 2.23(b); provided that, upon the delivery of a Lender Objection Notice pursuant to Section 2.23(d)(ii) in respect of any Eligible Foreign Jurisdiction, such jurisdiction shall cease to be an Eligible Foreign Jurisdiction hereunder.

“EMU”: economic and monetary union as contemplated in the Treaty on European Union.

“EMU Legislation”: legislative measures of the European Council for the introduction of, changeover to or operation of a single or unified European currency (whether known as the euro or otherwise), being in part the implementation of the third stage of EMU.

“Environmental Laws”: any and all foreign, Federal, state, local or municipal laws, rules, orders, regulations, statutes, ordinances, codes, decrees, requirements of any Governmental Authority or other applicable Requirements of Law (including common law) regulating, relating to or imposing liability or standards of conduct concerning protection of human health or the environment.

“Equity Interests”: as to any Person, the shares of capital stock of (or other ownership, distribution, profit or similar interests in) such Person, all of the warrants, options or other rights for the purchase or acquisition from such Person of shares of capital stock of (or ownership, distribution, profit or similar interests in) such Person, all of the securities that may be exchanged or converted for shares of capital stock of (or ownership, distribution, profit or similar interests in) such Person or warrants, rights or options for the purchase or acquisition from such Person of such shares (or such other interests), and all of the other ownership or profit interests in such Person (including partnership, member or trust interests therein), in each case, whether voting or nonvoting, and whether or not such shares, warrants, options, rights or other interests are outstanding on any date of determination.

“ERISA”: the Employee Retirement Income Security Act of 1974, as amended, and the rules and regulations promulgated thereunder.

“Erroneous Payment”: as defined in subsection 8.13(a).

“Erroneous Payment Deficiency Assignment”: as defined in subsection 8.13(d)(i).

“Erroneous Payment Impacted Class”: as defined in subsection 8.13(d)(i).

“Erroneous Payment Return Deficiency”: as defined in subsection 8.13(d)(i).

“Erroneous Payment Subrogation Rights”: as defined in subsection 8.13(e).

“EU Bail-In Legislation Schedule”: the EU Bail-In Legislation Schedule published by the Loan Market Association (or any successor person), as in effect from time to time.

“EURIBO Borrowing” as to any borrowing, the EURIBO Loans comprising such borrowing.

“EURIBO Loans”: Revolving Credit Loans hereunder denominated in Euros and the rate of interest applicable to which is based upon the EURIBO Rate.

“EURIBO Rate”: for any Interest Period, the rate appearing on the applicable Bloomberg screen (or on any successor or substitute page of such service, or any successor to or substitute for such service, providing rate quotations comparable to those currently provided on such page of such service, as determined by the Managing Administrative Agent from time to time for purposes of providing quotations of interest rates applicable to deposits in Euro by reference to the European Money Markets Institute rates for deposits in Euro) at approximately 10:00 A.M., London time, two Business Days prior to the commencement of such Interest Period, as the rate for deposits in Euro with a maturity comparable to such Interest Period; provided, that if such rate is below zero, such rate will be deemed to be zero.

“Euro Equivalent”: with respect to any amount in Dollars, the amount of Euros that could be purchased with such amount of Dollars using the reciprocal of the foreign exchange rate specified in the definition of the term “Dollar Equivalent”, as determined by the Managing Administrative Agent.

“Euros”: the single currency of Participating Member States of the European Union, which shall be a Foreign Currency under this Agreement.

“Event of Default”: any of the events specified in Section 7, provided that any requirement for the giving of notice, the lapse of time, or both, or any other condition, has been satisfied.

“Excluded Taxes”: any of the following Taxes imposed on or with respect to the Managing Administrative Agent or any Lender or required to be withheld or deducted from any amounts payable to the Managing Administrative Agent or any Lender:



(i) Taxes that are net income taxes (however denominated), branch profits taxes, and franchise taxes imposed on the Managing Administrative Agent or any Lender as a result of (A) a present or former connection between the Managing Administrative Agent or such Lender and the jurisdiction of the Governmental Authority imposing such tax or any political subdivision or taxing authority thereof or therein (other than any such connection arising solely from the Managing Administrative Agent or such Lender having executed, delivered or performed its obligations or received a payment under, or enforced, this Agreement or any Note), or (B) the Managing Administrative Agent or such Lender being organized under the laws of, or having its principal office or, in the case of any Lender, its applicable lending office located in, the jurisdiction of the Governmental Authority imposing such tax or any political subdivision or taxing authority thereof or therein,

(ii) Taxes that are attributable to such Lender's failure to comply with the requirements of Section 2.16(b) or (c);

(iii) Withholding taxes imposed by the United States resulting from any Requirement of Law in effect on the date on which such Lender becomes a party to this Agreement, except to the extent that such Lender's assignor (if any) was entitled, at the time of assignment, to receive additional amounts from any Borrower with respect to such United States withholding taxes under Section 2.16(a);

(iv) Withholding Taxes imposed by the United States attributable to such Lender changing its lending office, except to the extent that such Lender was entitled, at the time of the designation of a new lending office, to receive additional amounts from any Borrower with respect to such Taxes under Section 2.16(a); and

(v) Withholding taxes imposed under FATCA.

“Existing Credit Agreement”: as defined in the recitals hereto.

“Existing Lender”: as defined in the recitals hereto.

“Extending Lender”: as defined in subsection 2.19(b).

“FATCA”: Sections 1471 through 1474 of the Code, as of the date of this Agreement (or any amended or successor version that is substantively comparable and not materially more onerous to comply with), any current or future regulations or official interpretations thereof, any agreements entered into pursuant to Section 1471(b)(1) of the Code and any law, regulation, rule, promulgation or official agreement implementing an intergovernmental agreement, treaty or convention with respect to the foregoing in any jurisdiction.

“Federal Funds Rate”: for any day, the rate calculated by the New York Fed based on such day's federal funds transactions by depository institutions (as determined in such manner as the New York Fed shall set forth on its public website from time to time) and published on the next succeeding Business Day by the New York Fed as the federal funds effective rate.

“Financial Institution”: (a) any credit institution or investment firm established in any EEA Member Country which is subject to the supervision of a Resolution Authority, (b) any entity established in an EEA Member Country which is a parent of an institution described in

clause (a) of this definition, (c) any financial institution established in an EEA Member Country which is a subsidiary of an institution described in clauses (a) or (b) of this definition and is subject to consolidated supervision with its parent, or (d) any U.K. Financial Institution.

“Floor”: the benchmark rate floor, if any, provided in this Agreement initially (as of the execution of this Agreement, the modification, amendment or renewal of this Agreement or otherwise) with respect to the initial Benchmark for Dollars or Euros, as applicable, provided for hereunder.

“Foreign Currency”: any Currency other than Dollars.

“Fourth Restatement Effective Date”: the date on which the conditions precedent set forth in Section 4.1 shall be satisfied.

“GAAP”: generally accepted accounting principles in the United States in effect from time to time.

“Governmental Authority”: any nation or government, any state or other political subdivision thereof and any entity exercising executive, legislative, judicial, regulatory or administrative functions of or pertaining to government.

“Guarantee”: as to any Person (the “guaranteeing person”), any obligation of (a) the guaranteeing person or (b) another Person (including, without limitation, any bank under any letter of credit) to induce the creation of which the guaranteeing person has issued a reimbursement, counterindemnity or similar obligation, in either case guaranteeing or in effect guaranteeing any Indebtedness, leases, dividends or other obligations (the “primary obligations”) of any other third Person (the “primary obligor”) in any manner, whether directly or indirectly, including, without limitation, any obligation of the guaranteeing person, whether or not contingent, (i) to purchase any such primary obligation or any property constituting direct or indirect security therefor, (ii) to advance or supply funds (1) for the purchase or payment of any such primary obligation or (2) to maintain working capital or equity capital of the primary obligor or otherwise to maintain the net worth or solvency of the primary obligor, (iii) to purchase property, securities or services primarily for the purpose of assuring the owner of any such primary obligation of the ability of the primary obligor to make payment of such primary obligation or (iv) otherwise to assure or hold harmless the owner of any such primary obligation against loss in respect thereof; provided, however, that the term Guarantee shall not include endorsements of instruments for deposit or collection in the ordinary course of business or obligations of the Company or its Subsidiaries in respect of settlement failures by one or more of its customers. The amount of any Guarantee of any guaranteeing person shall be deemed to be the lower of (a) an amount equal to the stated or determinable amount of the primary obligation in respect of which such Guarantee is made and (b) the maximum amount for which such guaranteeing person may be liable pursuant to the terms of the instrument embodying such Guarantee, unless such primary obligation and the maximum amount for which such guaranteeing person may be liable are not stated or determinable, in which case the amount of such Guarantee shall be such guaranteeing person’s maximum reasonably anticipated liability in respect thereof as determined by the Company in good faith.

“Guaranteed Obligations”: as defined in Section 10.1.

“Guarantor”: as defined in Section 10.1.

“Increasing Lender”: as defined in subsection 2.19(d).

“Indebtedness”: (a) all obligations for borrowed money (other than overdrafts incurred in the ordinary course of business), (b) the deferred purchase price of assets or services which in accordance with GAAP would be shown on the liability side of the consolidated balance sheet of the Company and its Subsidiaries, (c) indebtedness of others secured by any lien on any property owned by the Company or any of its Subsidiaries, whether or not such indebtedness has been assumed, (d) all Capitalized Lease Obligations, (e) all outstanding reimbursement obligations resulting from payments made under letters of credit, (f) all Guarantees of Indebtedness of others (excluding Guarantees entered into in the ordinary course of business relating to settlement failures between customers of the Company and Guarantees in respect of obligations that have been fully collateralized by the primary obligor), (g) the aggregate unpaid amounts owed with respect to settlements related to actual litigation or disputes underlying threatened litigation and final, non appealable judgments (it being understood that amounts deposited in escrow with respect to any payments under any such settlements and judgments shall not be owed until such time as such settlement and judgments are final and non appealable) and (h) all obligations under Interest Rate Agreements; provided that (x) Indebtedness shall not include (i) trade payables and accrued expenses arising in the ordinary course of business, (ii) indebtedness for borrowed money incurred in the ordinary course of business with respect to any settlement failure by one or more customers of the Company, including failure by one or more of its customers to meet merchant payment obligations, so long as such indebtedness is repaid within six Business Days after the date such indebtedness is incurred and is not re-incurred within five Business Days after such repayment, (iii) settlements due to customers in the ordinary course of business (excluding settlements referred to in clause (g) above), (iv) deferred taxes, (v) restricted security deposits held for customers in the ordinary course of business, (vi) underfunded pension liabilities and (vii) obligations with respect to settlements and judgments (other than settlements and judgments referred to in clause (g) above) and (y) the amount of Indebtedness pursuant to clause (h) above shall be the amount that would be payable upon termination of the relevant Interest Rate Agreement (after giving effect to netting).

“Indemnified Taxes”: any Taxes imposed on or with respect to any amounts payable to the Managing Administrative Agent or any Lender under this Agreement or any Notes, other than Excluded Taxes.

“Ineligible Person”: (a) a natural Person, (b) any Borrower or any Affiliate or Subsidiary of a Borrower or (c) a company, investment vehicle or trust for, or owned and operated for the primary benefit of, a natural Person.

“Insolvency”: with respect to any Multiemployer Plan, the condition that such Multiemployer Plan is insolvent within the meaning of Section 4245 of ERISA.

“Intellectual Property”: as defined in Section 3.9.

“Interest Payment Date”: (a) as to any Loan, the rate of interest applicable to which is based upon the ABR, each Quarterly Date and the Revolving Credit Termination Date, (b) as to any Term Benchmark Loan having an Interest Period of three months or less, the last day of such Interest Period and (c) as to any Term Benchmark Loan having an Interest Period longer than three months, each day which is three months, or a whole multiple thereof, after the first day of such Interest Period and the last day of such Interest Period.

“Interest Period”: with respect to any Term Benchmark Loan:

(i) initially, the period commencing on the borrowing or conversion date, as the case may be, with respect to such Term Benchmark Loan and ending one, three or six months thereafter (in each case, subject to the availability thereof), as selected by any Borrower in its notice of borrowing or notice of conversion, as the case may be, given with respect thereto; and

(ii) thereafter, each period commencing on the last day of the next preceding Interest Period applicable to such Term Benchmark Loan and ending one, three or six months thereafter, as selected by any Borrower by irrevocable notice to the Managing Administrative Agent not less than three Business Days prior to the last day of the then current Interest Period with respect thereto;

provided that all of the foregoing provisions relating to Interest Periods are subject to the following:

(A) if any Interest Period would otherwise end on a day that is not a Business Day, such Interest Period shall be extended to the next succeeding Business Day unless the result of such extension would be to carry such Interest Period into another calendar month in which event such Interest Period shall end on the immediately preceding Business Day;

(B) any Interest Period that would otherwise extend beyond the Revolving Credit Termination Date shall end on the Revolving Credit Termination Date;

(C) any Interest Period that begins on the last Business Day of a calendar month (or on a day for which there is no numerically corresponding day in the calendar month at the end of such Interest Period) shall end on the last Business Day of a calendar month; and

(D) no tenor that has been removed from this definition pursuant to Section 2.11(e) shall be available for specification in a borrowing request.

“Interest Rate Agreement”: any interest rate swap agreement, interest rate cap agreement, interest rate collar agreement, interest rate futures contract, interest rate option contract or other similar agreement or arrangement designed to protect any Person against fluctuations in interest rates.

“International”: Mastercard International Incorporated.

“Legal Entity Customer”: as defined in 31 C.F.R. 1010.230(e)(2).

“Lender”: as defined in the preamble hereof.

“Lender Insolvency Event”: (i) a Lender or its Parent Company has been adjudicated as, or determined by any Governmental Authority having regulatory authority over such Person or its assets to be, insolvent, or (ii) a Lender or its Parent Company is the subject of a bankruptcy, insolvency, reorganization, liquidation, Bail-In Action or similar proceeding, or a receiver, trustee, conservator, intervenor or sequestrator or the like has been appointed for a Lender or its Parent Company, or a Lender or its Parent Company has taken any action in furtherance of or indicating its consent to or acquiescence in any such proceeding or appointment; provided that a Lender shall not be a Defaulting Lender solely by virtue of the ownership or acquisition of any equity interest in that Lender or any direct or indirect Parent Company thereof by a Governmental Authority, so long as such ownership interest does not result in or provide such Lender with immunity from the jurisdiction of courts within the United States or from the enforcement of judgments or writs of attachment on its assets or permits such Lender (or such Governmental Authority) to reject or repudiate, disavow or disaffirm any contracts or agreements made with such Lender.

“Lender Objection Notice”: as defined in subsection 2.23(d).

“Lien”: any mortgage, pledge, hypothecation, assignment, deposit arrangement, encumbrance, lien (statutory or other), charge or other security interest or any preference, priority or other security agreement or preferential arrangement of any kind or nature whatsoever intended to protect creditors against loss (including, without limitation, any conditional sale or other title retention agreement and any Capital Lease having substantially the same economic effect as any of the foregoing).

“Loan”: any Revolving Credit Loan or Swing Line Loan made by any Lender pursuant to this Agreement.

“Loan Documents”: this Agreement, any Notes issued hereunder, each Subsidiary Borrower Designation, each amendment or waiver hereof or thereof and each other document that the Managing Administrative Agent and the Company shall agree in writing is a “Loan Document” for all purposes hereunder.

“Local Time”: (i) with respect to any Loan denominated in Dollars or any payment to be made in Dollars, New York City time, and (ii) with respect to any Loan denominated in Euros or any payment to be made in Euros, London time.

“London Business Day”: as defined in Section 2.12(b).

“Managing Administrative Agent”: as defined in the preamble hereof.

“Managing Administrative Agent’s Account”: for each relevant Currency, an account in respect of such Currency designated by the Managing Administrative Agent in a notice to the Company and the Lenders.

“Margin Stock”: margin stock within the meaning of Regulation U.

“Material Adverse Effect”: a material adverse effect on (a) the business, assets, operations, property or financial condition of the Company and its Subsidiaries taken as a whole (excluding those disclosed in any of the audited 2021 financial statements of the Company, the most recent Annual Report on Form 10-K of the Company and any Quarterly Report on Form 10-Q of the Company and any Current Report on Form 8-K of the Company filed with the SEC subsequent to the date of the Company’s most recent Annual Report on Form 10-K prior to the date hereof or in any Schedules to this Agreement as in effect on the date hereof and it being understood that a settlement failure by one or more customers of the Company shall not constitute an event, development or circumstance that has a “Material Adverse Effect”) or (b) the validity or enforceability of any of the Loan Documents or the material rights or remedies of the Managing Administrative Agent or the Lenders thereunder, taken as a whole.

“Material Subsidiary”: at any time, (i) a “significant subsidiary” as defined in Regulation S-X under the Securities Act of 1933, as amended, and the Securities Exchange Act of 1934, as amended and (ii) each Subsidiary Borrower.

“Materials of Environmental Concern”: any gasoline or petroleum (including crude oil or any fraction thereof) or petroleum products or any hazardous or toxic substances, materials or wastes, defined or regulated as such in or under any Environmental Law, including, without limitation, asbestos, per- and polyfluoroalkyl substances, polychlorinated biphenyls and urea-formaldehyde insulation.

“Maximum Rate”: as defined in Section 9.22.

“Moody’s”: Moody’s Investors Service, Inc., and its successors.

“Moody’s Rating”: at any time, the long-term issuer rating (or, if such rating is not available, the counterparty rating) of the Company then most recently announced and effective by Moody’s.

“Multiemployer Plan”: an employee benefit plan which is a multiemployer plan as defined in Section 4001 (a)(3) of ERISA and which is subject to Title IV of ERISA, to which the Company or any Commonly Controlled Entity is making or accruing an obligation to make contributions, or has within any of the preceding six plan years made or accrued an obligation to make contributions.

“New Lender”: as defined in subsection 2.18(b).

“New Lender Supplement”: as defined in subsection 2.18(b).

“New York Fed”: the Federal Reserve Bank of New York.

“New York Fed Bank Rate”: for any day, the greater of (a) the Federal Funds Rate in effect on such day and (b) the Overnight Bank Funding Rate in effect on such day; provided that if both such rates are not so published for any day that is a Business Day, the term “New York Fed Bank Rate” means the rate quoted for such day for a federal funds transaction at 11:00 a.m. on such day received by the Managing Administrative Agent from a Federal funds broker of

recognized standing selected by it; provided, further, that if any of the aforesaid rates shall be less than zero, such rate shall be deemed to be zero.

“Non-Defaulting Lender”: at any time, a Lender that is not a Defaulting Lender.

“Notes”: the collective reference to the Revolving Credit Notes and the Swing Line Note.

“Non-U.S. Lender”: as defined in Section 2.16(b).

“Non-U.S. Subsidiary”: any Subsidiary that is not a U.S. Subsidiary.

“Non-U.S. Subsidiary Borrower”: any Subsidiary Borrower that is not a U.S. Subsidiary.

“Notice of Proposed Subsidiary Borrower Designation”: as defined in subsection 2.23(a).

“Objecting Lender”: as defined in subsection 2.23(d).

“Outstanding Swing Line Loans”: as defined in Section 2.13(c).

“Overnight Bank Funding Rate”: for any day, the rate comprised of both overnight Federal funds and overnight Eurodollar borrowings by U.S.–managed banking offices of depository institutions (as such composite rate shall be determined by the New York Fed as set forth on its public website from time to time) and published on the next succeeding Business Day by the New York Fed as an overnight bank funding rate (from and after such date as the New York Fed shall commence to publish such composite rate).

“Parent Company”: with respect to a Lender, the bank holding company (as defined in Regulation Y), if any, of such Lender, and/or any Person owning, beneficially or of record, directly or indirectly, a majority of the shares of such Lender.

“Participant”: as defined in subsection 9.6(b).

“Participant Register”: as defined in subsection 9.6(b).

“Participating Member State”: each state so described in any EMU Legislation.

“Payment Recipient”: as defined in subsection 8.13(a).

“PBGC”: the Pension Benefit Guaranty Corporation established pursuant to Subtitle A of Title IV of ERISA.

“Periodic Term SOFR Determination Day”: as defined in the definition of “Term SOFR”.

“Person”: an individual, partnership, corporation, business trust, joint stock company, trust, unincorporated association, joint venture, Governmental Authority or other entity of whatever nature.

“Plan”: at a particular time, any employee benefit plan (other than a Multiemployer Plan) which is covered by ERISA and in respect of which the Company or a Subsidiary is (or, if such plan were terminated at such time, would under Section 4069 of ERISA be deemed to be) an “employer” as defined in Section 3(5) of ERISA.

“Properties”: as defined in subsection 3.17(a).

“PTE”: a prohibited transaction class exemption issued by the U.S. Department of Labor, as any such exemption may be amended from time to time.

“Quarterly Dates”: the last Business Day of March, June, September and December in each year, the first of which shall be the first such day after the date hereof.

“Rating Level Change”: a change in the S&P Rating or the Moody’s Rating, as applicable (other than as a result of a change in the rating system of S&P or Moody’s, as applicable) that results in the change from one Rating Level Period to another, which Rating Level Change shall be effective on the date on which the relevant change in the S&P Rating or the Moody’s Rating, as applicable, is first announced and effective by S&P or Moody’s, as applicable. If the rating system of Moody’s or S&P shall change, the Company and the Managing Administrative Agent shall negotiate in good faith to amend this definition with the consent of the Required Lenders to reflect such changed rating system and, pending the effectiveness of any such amendment, the Rating Level Period shall be determined by reference to the rating assigned by the other rating agency. If the rating systems of both Moody’s and S&P shall change, the Company and the Managing Administrative Agent shall negotiate in good faith to amend this definition with the consent of the Required Lenders to reflect such changed rating systems and (i) pending the effectiveness of any such amendment, the Rating Level Period shall be determined by reference to the rating most recently in effect prior to such change and (ii) upon the effectiveness of any such amendment, such amendment shall be deemed to have become effective on the date of such change in the rating systems of Moody’s and S&P (with any additional amount owing by any Borrower hereunder by reason of any retroactive adjustment in the Applicable Facility Fee Rate or the Applicable Margin to be paid by the applicable Borrower not later than ten Business Days after such effectiveness and any amount to be refunded to any Borrower by any Lender hereunder by reason of any such retroactive adjustment to be deducted by such Borrower from its next payments hereunder to or for the account of such Lender).

“Rating Level Period”: a Rating Level 1 Period, a Rating Level 2 Period, a Rating Level 3 Period, a Rating Level 4 Period or a Rating Level 5 Period; provided that:

- (i) “Rating Level 1 Period”: a period during which the S&P Rating is AA- or better or the Moody’s Rating is Aa3 or better;
- (ii) “Rating Level 2 Period”: a period during which the S&P Rating is A+ or the Moody’s Rating is A1;
- (iii) “Rating Level 3 Period”: a period during which the S&P Rating is A or the Moody’s Rating is A2;



(iv) “Rating Level 4 Period”: a period during which the S&P Rating is A- or the Moody’s Rating is A3;

(v) “Rating Level 5 Period”: a period that is neither a Rating Level 1 Period, a Rating Level 2 Period, a Rating Level 3 Period nor a Rating Level 4 Period;

(vi) If during any period both an S&P Rating and a Moody’s Rating have been announced and are effective, if such S&P Rating and Moody’s Rating shall not be equivalent to each other, the higher such rating shall be used to determine the Rating Level Period, provided that, if such S&P Rating and Moody’s Rating shall be separated by more than one level (it being acknowledged and agreed by way of example that the ratings of “BBB+” and “BBB” are separated by one level), the lower such rating, adjusted up by one level, shall be used to determine the Rating Level Period.

If Moody’s or S&P shall cease to issue debt ratings generally, then the Managing Administrative Agent and the Company shall negotiate in good faith to agree upon a substitute rating agency (and to correlate the system of ratings of such substitute agency with that of the rating agency for which it is substituting) with the consent of the Required Lenders and (i) until such substitute rating agency is agreed upon, the foregoing Rating Level Period (and any Rating Level Change) will be determined on the basis of the rating assigned by the other rating agency and (ii) after such substitute agency is agreed upon, the Rating Level Period will be determined on the basis of the rating assigned by the other rating agency and such substitute rating agency.

“Register”: as defined in subsection 9.6(d).

“Regulation U”: Regulation U of the Board as in effect from time to time.

“Regulation X”: Regulation X of the Board as in effect from time to time.

“Regulation Y”: Regulation Y of the Board as in effect from time to time.

“Relevant Governmental Body”: (a) with respect to a Benchmark Replacement in respect of Dollars, the Board or the New York Fed, or a committee officially endorsed or convened by the Board or the New York Fed, or any successor thereto and (b) with respect to a Benchmark Replacement in respect of any Currency other than Dollars, (1) the central bank for the currency in which such amounts are denominated hereunder or any central bank or other supervisor which is responsible for supervising either (A) such Benchmark Replacement or (B) the administrator of such Benchmark Replacement or (2) any working group or committee officially endorsed or convened by (A) the central bank for the currency in which such amounts are denominated, (B) any central bank or other supervisor that is responsible for supervising either (i) such Benchmark Replacement or (ii) the administrator of such Benchmark Replacement, (C) a group of those central banks or other supervisors or (D) the Financial Stability Board or any part thereof.

“Relevant Jurisdiction”: with respect to any Subsidiary Borrower, the jurisdiction of its organization.

“Relevant Rate”: (a) with respect to any Term Benchmark borrowing denominated in Dollars, Adjusted Term SOFR and (b) with respect to any Term Benchmark borrowing

denominated in Euro, the EURIBO Rate.

“Reportable Event”: any of the events set forth in Section 4043(c) of ERISA, other than those events as to which the thirty day notice period is waived under PBGC Reg. § 4043.

“Required Lenders”: at any time, Lenders the Commitment Percentages of which aggregate more than 50%.

“Requirement of Law”: as to any Person, the certificate of incorporation and by-laws or other organizational or governing documents of such Person, and any law, treaty, rule or regulation or determination of an arbitrator or a court or other Governmental Authority, in each case applicable to or binding upon such Person or any of its property or to which such Person or any of its property is subject.

“Resolution Authority”: (a) any public administrative authority or any person entrusted with public administrative authority of any EEA Member Country (including any delegee) having responsibility for the resolution of any Financial Institution, other than a U.K. Financial Institution, or (b) the U.K. Resolution Authority.

“Responsible Officer”: the president and chief executive officer and the chief operating officer of the Company and, with respect to financial matters, the chief financial officer or the Treasurer or Assistant Treasurer of the Company.

“Revolving Credit Exposure”: with respect to any Lender at any time, the sum of the outstanding principal amount of such Lender’s Revolving Credit Loans and its Swing Line Exposure at such time.

“Revolving Credit Loans”: as defined in subsection 2.1(a).

“Revolving Credit Note”: as defined in subsection 2.5(e).

“Revolving Credit Termination Date”: November 10, 2027, or such earlier date as the Commitments shall terminate pursuant to the terms hereof; provided that if the Revolving Credit Termination Date would otherwise fall on a day that is not a Business Day, the Revolving Credit Termination Date shall be the immediately preceding Business Day.

“S&P”: Standard & Poor’s Financial Services LLC, and its successors.

“S&P Rating”: at any time, the long-term issuer rating (or, if such rating is not available, the counterparty rating) of the Company then most recently announced and effective by S&P.

“Sale Leaseback”: any arrangement with any Person providing for the leasing by the Company or any Subsidiary of any real or tangible personal property, which property has been or is to be sold or transferred by the Company or such Subsidiary to such Person in contemplation of such leasing.

“Sanctions”: economic or financial sanctions or trade embargoes imposed, administered or enforced from time to time by (a) the U.S. government, including those administered by the

Office of Foreign Assets Control of the U.S. Department of the Treasury or the U.S. Department of State, or (b) the United Nations Security Council, the European Union or His Majesty's Treasury of the United Kingdom.

"Sanctioned Country": at any time, a country, region or territory that is the subject or target of any Sanctions.

"Sanctioned Person": at any time, (a) any Person listed in any Sanctions-related list of designated Persons maintained by the Office of Foreign Assets Control of the U.S. Department of the Treasury, the U.S. Department of State, or by the United Nations Security Council, the European Union, any EU member state or His Majesty's Treasury of the United Kingdom, (b) any Person operating, organized or resident in a Sanctioned Country or (c) any Person owned or controlled by any such Person or group of such Persons.

"Second Currency": as defined in Section 9.17.

"Single Employer Plan": an employee benefit plan which is subject to Title IV of ERISA, to which the Company or any Commonly Controlled Entity is making or accruing an obligation to make contributions, or has within any of the preceding six plan years made or accrued an obligation to make contributions, but which is not a Multiemployer Plan.

"SOFR": a rate equal to the secured overnight financing rate as administered by the SOFR Administrator.

"SOFR Administrator": the New York Fed (or a successor administrator of the secured overnight financing rate).

"SOFR Borrowing" as to any borrowing, the SOFR Loans comprising such borrowing.

"SOFR Loan": a Loan that bears interest at a rate based on Adjusted Term SOFR, other than pursuant to clause (iii) of the definition of "ABR".

"Specified Currency": as defined in Section 9.17.

"Specified Place": as defined in Section 9.17.

"Subsidiary": as to any Person, a corporation, partnership or other entity of which a majority of the Voting Shares are at the time owned, directly or indirectly through one or more intermediaries, or both, by such Person. Unless otherwise qualified, all references to a "Subsidiary" or to "Subsidiaries" in this Agreement shall refer to a Subsidiary or Subsidiaries of the Company.

"Subsidiary Borrower": each Subsidiary of the Company that shall become a Subsidiary Borrower pursuant to Section 2.23, so long as any such Subsidiary shall remain a Subsidiary Borrower hereunder.

"Subsidiary Borrower Designation": a Subsidiary Borrower Designation entered into by the Company and a Subsidiary of the Company pursuant to Section 2.23, pursuant to which such

Subsidiary shall (subject to the terms and conditions of Section 2.23(b)) be designated as a Borrower hereunder, substantially in the form of Exhibit E-1 or any other form approved by the Managing Administrative Agent and the Company.

“Subsidiary Borrower Termination Notice”: as defined in subsection 2.23(c).

“Swing Line Commitment”: a Swing Line Lender’s obligation to make Swing Line Loans pursuant to Section 2.13. The amount of each Swing Line Lender’s Swing Line Commitment on the date hereof is set forth in part (b) of Schedule 1.2.

“Swing Line Commitment Shortfall”: as defined in subsection 2.13(a).

“Swing Line Exposure”: at any time, the aggregate principal amount of all Swing Line Loans outstanding at such time. The Swing Line Exposure of any Swing Line Lender at any time shall be the aggregate principal amount of all Swing Line Loans of such Swing Line Lender outstanding at such time. The Swing Line Exposure of any Lender at any time shall be its Commitment Percentage of the total Swing Line Exposure at such time.

“Swing Line Lenders”: Citibank, JPMorgan Chase Bank, N.A., Deutsche Bank AG New York Branch, U.S. Bank National Association, Bank of China, New York Branch, Bank of America, N.A., Goldman Sachs Bank USA, Lloyds Bank Corporate Markets PLC and Wells Fargo Bank, National Association, each in its capacity as a provider of Swing Line Loans, as well as each Lender designated to be a Swing Line Lender in accordance with subsection 2.13(a) and each Lender that is the assignee of a Swing Line Commitment assigned pursuant to Section 9.6(c).

“Swing Line Loan Participation Certificate”: a certificate in substantially the form of Exhibit D.

“Swing Line Loans”: as defined in subsection 2.13(a).

“Swing Line Note”: as defined in subsection 2.13(b).

“Target Operating Day”: any day that is not (i) a Saturday or Sunday, (ii) Christmas Day or New Year’s Day or (iii) any other day on which the Trans-European Automated Real-time Gross Settlement Express Transfer system (or any successor settlement system) is not scheduled to operate (as determined by the Managing Administrative Agent).

“Taxes”: any present or future income, stamp or other taxes, levies, imposts, duties, charges, fees, deductions or withholdings, now or hereafter imposed, levied, collected, withheld or assessed by any Governmental Authority, including any interest, additions to tax or penalties applicable thereto.

“Term Benchmark”: when used in reference to (a) any Loan, SOFR Loans or EURIBO Loans, and (b) any borrowing, SOFR Borrowing or EURIBO Borrowing.

“Term SOFR”:

(a) for any calculation with respect to a SOFR Loan, the Term SOFR Reference Rate for a tenor comparable to the applicable Interest Period on the day (such day, the “Periodic Term SOFR Determination Day”) that is two (2) U.S. Government Securities Business Days prior to the first day of such Interest Period, as such rate is published by the Term SOFR Administrator; provided, however, that if as of 5:00 p.m. (New York City time) on any Periodic Term SOFR Determination Day the Term SOFR Reference Rate for the applicable tenor has not been published by the Term SOFR Administrator and a Benchmark Replacement Date with respect to the Term SOFR Reference Rate has not occurred, then Term SOFR will be the Term SOFR Reference Rate for such tenor as published by the Term SOFR Administrator on the first preceding U.S. Government Securities Business Day for which such Term SOFR Reference Rate for such tenor was published by the Term SOFR Administrator so long as such first preceding U.S. Government Securities Business Day is not more than three (3) U.S. Government Securities Business Days prior to such Periodic Term SOFR Determination Day; and

(b) for any calculation with respect to an ABR Loan on any day, the Term SOFR Reference Rate for a tenor of one month on the day (such day, the “ABR Term SOFR Determination Day”) that is two (2) U.S. Government Securities Business Days prior to such day, as such rate is published by the Term SOFR Administrator; provided, however, that if as of 5:00 p.m. (New York City time) on any ABR Term SOFR Determination Day the Term SOFR Reference Rate for the applicable tenor has not been published by the Term SOFR Administrator and a Benchmark Replacement Date with respect to the Term SOFR Reference Rate has not occurred, then Term SOFR will be the Term SOFR Reference Rate for such tenor as published by the Term SOFR Administrator on the first preceding U.S. Government Securities Business Day for which such Term SOFR Reference Rate for such tenor was published by the Term SOFR Administrator so long as such first preceding U.S. Government Securities Business Day is not more than three (3) U.S. Government Securities Business Days prior to such ABR SOFR Determination Day.

“Term SOFR Administrator”: the CME Group Benchmark Administration Limited (CBA) (or a successor administrator of the Term SOFR Reference Rate selected by the Administrative Agent in its reasonable discretion). In respect of Term SOFR, the market data is the property of Chicago Mercantile Exchange Inc. or its licensors as applicable. All rights reserved, or otherwise licensed by Chicago Mercantile Exchange Inc.

“Term SOFR Adjustment”: mean 0.10% per annum.

“Term SOFR Reference Rate”: the rate per annum determined by the Administrative Agent as the forward-looking term rate based on SOFR.

“Tranche”: the collective reference to Term Benchmark Loans of a single Currency the then current Interest Periods with respect to all of which begin on the same date and end on the same later date (whether or not such loans shall originally have been made on the same day).

“Transferee”: as defined in subsection 9.6(f).

“Treaty on European Union”: the Treaty of Rome of March 25, 1957, as amended by the Single European Act 1986 and the Maastricht Treaty (which was signed at Maastricht on February 7, 1992, and came into force on November 1, 1993).

“Type”: as to any Revolving Credit Loan, its nature as an ABR Loan, a SOFR Loan or a EURIBO Loan.

“U.K. Bail-In Legislation”: Part I of the United Kingdom Banking Act 2009 (as amended from time to time) and any other law, regulation or rule applicable in the United Kingdom relating to the resolution of unsound or failing banks, investment firms or other financial institutions or their affiliates (other than through liquidation, administration or other insolvency proceedings).

“U.K. Financial Institution”: any BRRD Undertaking (as such term is defined under the PRA Rulebook (as amended from time to time) promulgated by the United Kingdom Prudential Regulation Authority) or any person falling within IFPRU 11.6 of the FCA Handbook (as amended from time to time) promulgated by the United Kingdom Financial Conduct Authority, which includes certain credit institutions and investment firms, and certain affiliates of such credit institutions or investment firms.

“U.K. Resolution Authority”: the Bank of England or any other public administrative authority having responsibility for the resolution of any U.K. Financial Institution.

“Unadjusted Benchmark Replacement”: the applicable Benchmark Replacement excluding the related Benchmark Replacement Adjustment.

“United States”: the United States of America.

“U.S. Government Securities Business Day”: any day except for (i) a Saturday, (ii) a Sunday or (iii) a day on which the Securities Industry and Financial Markets Association recommends that the fixed income departments of its members be closed for the entire day for purposes of trading in United States government securities.

“U.S. Subsidiary”: any Subsidiary of the Company that is organized under the laws of any State of the United States or the District of Columbia.

“Voting Shares”: as to any Person, shares of stock of or other ownership interests in such Person having ordinary voting power (other than such stock or other ownership interests having such power only by reason of the happening of a contingency) to elect a majority of the board of directors (or similar managers) of such Person.

“Write-Down and Conversion Powers”: (a) with respect to any Resolution Authority other than the U.K. Resolution Authority, the write-down and conversion powers of such Resolution Authority from time to time under the Bail-In Legislation for the applicable EEA Member Country, which write-down and conversion powers are described in the EU Bail-In Legislation Schedule and (b) with respect to the U.K. Resolution Authority, any applicable powers under the U.K. Bail-In Legislation to cancel, reduce, modify or change the form of a liability of any U.K. Financial Institution or any contract or instrument under which that liability arises, to convert all or part of that liability into shares, securities or obligations of that person or any other person, to provide that any such contract or instrument is to have effect as if a right had been exercised under it or to suspend any obligation in respect of that liability or any of the

powers under that U.K. Bail-In Legislation that are related to or ancillary to any of those powers.

1.2 Other Definitional Provisions. (a) Unless otherwise specified therein, all terms defined in this Agreement shall have the defined meanings when used in any Notes or any certificate or other document made or delivered pursuant hereto.

(b) As used herein and in any Notes, and any certificate or other document made or delivered pursuant hereto, accounting terms relating to the Company and its Subsidiaries not defined in Section 1.1 and accounting terms partly defined in Section 1.1, to the extent not defined, shall have the respective meanings given to them under GAAP, as in effect from time to time. If the Company notifies the Managing Administrative Agent that the Company requests an amendment to any provision hereof to eliminate or modify the effect of (x) any change occurring after the date hereof in GAAP or in the application or interpretation thereof on the operation of such provision or (y) any change in the last day of the first three fiscal quarters of the Company in any fiscal year from March 31, June 30 or September 30 or the last day of the fiscal year of the Company from December 31 (or if the Managing Administrative Agent notifies the Company that the Required Lenders request an amendment to any provision hereof for such purpose), regardless of whether any such notice is given before or after such change in GAAP or in the application thereof or in the last day of any fiscal quarter or fiscal year, then such provision shall be interpreted (i) on the basis of GAAP, as in effect and applied immediately before such change shall have become effective or (ii) disregarding any such change in the last day of the fiscal quarter or fiscal year of the Company, as the case may be, in each case until such notice shall have been withdrawn or such provision amended in accordance herewith. Notwithstanding anything to the contrary contained herein or any reference to determination in accordance with GAAP, any obligations relating to a lease that was accounted for as an operating lease as of December 15, 2018 and any similar lease entered into after December 15, 2018 shall be accounted for as an operating lease and not a Capital Lease Obligation.

(c) The words “hereof”, “herein” and “hereunder” and words of similar import when used in this Agreement shall refer to this Agreement as a whole and not to any particular provision of this Agreement, and Section, subsection, Schedule and Exhibit references are to this Agreement unless otherwise specified.

(d) The meanings given to terms defined herein shall be equally applicable to both the singular and plural forms of such terms.

(e) The words “asset” and “property” shall be construed to have the same meaning and effect and to refer to any and all tangible and intangible assets and properties, including cash, securities, accounts and contract rights.

1.3 Currencies; Currency Equivalents. For the purposes of determining (i) whether the amount of any requested Loan, together with all other Loans then outstanding or to be borrowed at the same time as such Loan, would exceed the aggregate amount of the Commitments, (ii) the aggregate unutilized amount of the Commitments and (iii) the outstanding aggregate principal amount of Loans, the outstanding principal amount of any Loan that is denominated in Euros shall be deemed to be the Dollar Equivalent of the amount of Euros of such Loan determined as of the date on which such Loan is made. For the purposes of

determining the date on which the EURIBO Rate is determined under this Agreement for the Interest Period for any Loan denominated in Euros (or in any National Currency), references in this Agreement to Business Days shall be deemed to be references to Target Operating Days.

1.4 Rates. The Managing Administrative Agent does not warrant or accept responsibility for, and shall not have any liability with respect to (a) the continuation of, administration of, submission of, calculation of or any other matter related to ABR, the Term SOFR Reference Rate, Adjusted Term SOFR, Term SOFR or EURIBO Rate or any component definition thereof or rates referred to in the definition thereof, or any alternative, successor or replacement rate thereto (including any Benchmark Replacement), including whether the composition or characteristics of any such alternative, successor or replacement rate (including any Benchmark Replacement) will be similar to, or produce the same value or economic equivalence of, or have the same volume or liquidity as, ABR, the Term SOFR Reference Rate, Adjusted Term SOFR, Term SOFR, EURIBO Rate or any other Benchmark prior to its discontinuance or unavailability, or (b) the effect, implementation or composition of any Conforming Changes. The Managing Administrative Agent and its affiliates or other related entities may engage in transactions that affect the calculation of ABR, the Term SOFR Reference Rate, Term SOFR, Adjusted Term SOFR, EURIBO Rate or any alternative, successor or replacement rate (including any Benchmark Replacement) or any relevant adjustments thereto, in each case, in a manner adverse to the Borrower. The Managing Administrative Agent may select information sources or services in its reasonable discretion to ascertain ABR, the Term SOFR Reference Rate, Term SOFR, Adjusted Term SOFR, EURIBO Rate or any other Benchmark, in each case pursuant to the terms of this Agreement, and shall have no liability to the Borrower, any Lender or any other person or entity for damages of any kind, including direct or indirect, special, punitive, incidental or consequential damages, costs, losses or expenses (whether in tort, contract or otherwise and whether at law or in equity), for any error or calculation of any such rate (or component thereof) provided by any such information source or service.

1.5 Divisions. For all purposes under the Loan Documents, in connection with any division or plan of division under Delaware law (or any comparable event under a different jurisdiction's laws): (a) if any asset, right, obligation or liability of any Person becomes the asset, right, obligation or liability of a different Person, then it shall be deemed to have been transferred from the original Person to the subsequent Person, and (b) if any new Person comes into existence, such new Person shall be deemed to have been organized on the first date of its existence by the holders of its Equity Interests at such time.

## SECTION 2. AMOUNT AND TERMS OF LOANS

2.1 Revolving Credit Commitments. (a) Subject to the terms and conditions hereof, each Lender severally agrees to make revolving credit loans ("Revolving Credit Loans") in Dollars or in Euros (with respect to Euros, so long as Euros constitute an Eligible Foreign Currency) to any Borrower from time to time during the Commitment Period in an aggregate principal amount at any one time outstanding, when added to such Lender's Swing Line Exposure (including, as applicable, in its capacity as Swing Line Lender) (after giving effect to any repayment of Swing Line Loans on such day), not to exceed the amount of such Lender's Commitment, provided that the aggregate principal amount of all Loans outstanding at any time (after giving effect any repayment of Swing Line Loans on such day) shall not exceed the



aggregate amount of the Commitments at such time. During the Commitment Period any Borrower may use the Commitments by borrowing, prepaying the Revolving Credit Loans in whole or in part, and reborrowing, all in accordance with the terms and conditions hereof.

(b) The Revolving Credit Loans may from time to time be Term Benchmark Loans denominated in Dollars, Term Benchmark Loans denominated in Euros, ABR Loans denominated in Dollars, or a combination thereof, as determined by any Borrower and notified to the Managing Administrative Agent in accordance with Sections 2.2 and 2.7.

2.2 Procedure for Revolving Credit Borrowing. Any Borrower may borrow under the Commitments during the Commitment Period on any Business Day, provided that such Borrower shall give the Managing Administrative Agent irrevocable notice (which notice must be received by the Managing Administrative Agent prior to (a) 4:00 P.M., New York City time, three Business Days (or, in the case of a borrowing of SOFR Loans, three U.S. Government Securities Business Days) prior to the requested Borrowing Date, if all or any part of the requested Revolving Credit Loans are to be initially Term Benchmark Loans or (b) 3:00 P.M., New York City time, on the same Business Day of the requested Borrowing Date, otherwise), specifying (i) the amount and Currency to be borrowed, (ii) the requested Borrowing Date, (iii) whether the borrowing is to be of SOFR Loans, EURIBO Loans, ABR Loans, or a combination thereof and (iv) if the borrowing is to be entirely or partly of SOFR Loans or EURIBO Loans, as applicable, the respective amounts of each such Type of Revolving Credit Loan and the respective lengths of the initial Interest Periods therefor. Each borrowing in Dollars under the Commitments shall be in an amount equal to at least \$10,000,000 or a whole multiple of \$1,000,000 in excess thereof (or, if the then aggregate Available Commitments are less than \$10,000,000, such lesser amount). Each borrowing under the Commitments in Euros shall be in an amount equal to at least €10,000,000 or a whole multiple of €1,000,000 in excess thereof (or, if the then aggregate Available Commitments are less than \$10,000,000, the Euro Equivalent of such lesser amount).

If no election as to the Currency of a borrowing is specified, then the requested borrowing shall be denominated in Dollars. If no election as to the Type of a borrowing is specified, then the requested borrowing shall be in ABR Loans unless Euros have been specified, in which case the requested borrowing shall be in EURIBO Loans denominated in Euros. If no Interest Period is specified with respect to any requested Term Benchmark Loan, the applicable Borrower shall be deemed to have selected an Interest Period of one month's duration.

Upon receipt of any such notice from any Borrower, the Managing Administrative Agent shall promptly notify each Lender thereof. Except as contemplated by subsection 2.13(c), each Lender will make the amount of its pro rata share of each borrowing available to the Managing Administrative Agent for the account of the applicable Borrower at the Managing Administrative Agent's Account prior to 2:00 P.M., Local Time, to the extent the requested Revolving Credit Loans are to be initially Term Benchmark Loans, or 4:00 P.M., New York City time, otherwise, on the Borrowing Date requested by the applicable Borrower in funds immediately available to the Managing Administrative Agent. Such borrowing will then be made available to the applicable Borrower by the Managing Administrative Agent crediting the account of such Borrower on the books of such office with the aggregate of the amounts made available to the

Managing Administrative Agent by the Lenders and in like funds as received by the Managing Administrative Agent.

2.3 Facility Fee. The Company agrees to pay to the Managing Administrative Agent for the account of each Lender a facility fee for the period from and including the first day of the Commitment Period to the Revolving Credit Termination Date, computed at a rate per annum equal to the Applicable Facility Fee Rate on the average daily Commitment of such Lender, whether or not utilized, from and including the first day of the Commitment Period until the Revolving Credit Termination Date. Such facility fee shall be payable quarterly in Dollars in arrears on each Quarterly Date, on the Revolving Credit Termination Date or such earlier date as the Commitments shall terminate as provided herein, commencing on the first of such dates to occur after the date hereof.

Anything herein to the contrary notwithstanding, during any period as a Lender is a Defaulting Lender, such Defaulting Lender will not be entitled to any facility fees accruing during such period pursuant to this Section 2.3 on the amount of its Commitment equal to the average daily unutilized portion thereof during such period (without prejudice to the rights of the Swing Line Lenders in respect of such facility fees).

2.4 Termination or Reduction of Commitments. The Company shall have the right, upon not less than one Business Day's notice to the Managing Administrative Agent, to terminate the Commitments or, from time to time, to reduce the amount of the Commitments, provided that (a) after giving effect to such termination or reduction, the aggregate outstanding principal amount of the Loans shall not exceed the aggregate Commitments and (b) a notice of termination of the Commitments delivered by the Company may state that such notice is conditioned upon the effectiveness of other credit facilities, in which case such notice (and any required prepayments) may be revoked by the Company (by notice to the Managing Administrative Agent on or prior to the specified effective date) if such condition is not satisfied. Any such reduction shall be in an amount equal to \$10,000,000 or a whole multiple of \$1,000,000 in excess thereof and shall reduce permanently the Commitments then in effect.

2.5 Repayment of Revolving Credit Loans; Evidence of Debt. (a) Each Borrower hereby unconditionally promises to pay to the Managing Administrative Agent for the account of each Lender the unpaid principal amount of each Revolving Credit Loan made to such Borrower by such Lender on the Revolving Credit Termination Date (or such earlier date on which the Revolving Credit Loans become due and payable pursuant to Section 7), in the Currency in which such Revolving Credit Loan was made. Each Borrower hereby further agrees to pay interest on the unpaid principal amount of the Revolving Credit Loans from time to time outstanding from the date hereof until payment in full thereof in the same currency in which such Revolving Credit Loan was made and at the rates per annum, and on the dates, set forth in Section 2.9.

(b) Each Lender shall maintain in accordance with its usual practice appropriate records evidencing indebtedness of each Borrower to such Lender resulting from each Revolving Credit Loan of such Lender from time to time, including the amounts of principal and interest payable and paid to such Lender from time to time under this Agreement.

(c) The Managing Administrative Agent shall maintain the Register pursuant to subsection 9.6(d), and a record therein for each Lender, in which shall be recorded (i) the amount and Currency of each Revolving Credit Loan made hereunder, the Type thereof and each Interest Period applicable thereto, (ii) the amount of any principal or interest due and payable or to become due and payable from each Borrower to each Lender hereunder and (iii) both the amount of any sum received by the Managing Administrative Agent hereunder from each Borrower and each Lender's share thereof.

(d) The entries made in the Register and the records of each Lender maintained pursuant to subsection 2.5(b) shall, to the extent permitted by applicable law, be conclusive evidence (absent manifest error) of the existence and amounts of the obligations of the applicable Borrower therein recorded; provided, however, that the failure of any Lender or the Managing Administrative Agent to maintain the Register or any such record, or any error therein, shall not in any manner affect the obligation of each Borrower to repay (with applicable interest) the Revolving Credit Loans made to such Borrower by such Lender in accordance with the terms of this Agreement.

(e) Each Borrower agrees that, upon request to the Managing Administrative Agent by any Lender, each Borrower will execute and deliver to such Lender a promissory note of such Borrower evidencing the Revolving Credit Loans of such Lender, substantially in the form of Exhibit A with appropriate insertions as to date and principal amount (a "Revolving Credit Note").

2.6 Prepayment of Loans. (a) Optional Prepayments. Any Borrower may at any time and from time to time prepay the Revolving Credit Loans, in whole or in part, without premium or penalty, subject to the requirements of this Section 2.6 and Section 2.17, in the Currency in which such Revolving Credit Loan was made.

(b) Mandatory Prepayments.

(i) Determination of Amount Outstanding. On each Quarterly Date and promptly upon the receipt by the Managing Administrative Agent of a Currency Valuation Notice (as defined below), the Managing Administrative Agent shall determine the aggregate Revolving Credit Exposure. For the purpose of this determination, the outstanding principal amount of any Revolving Credit Loan that is denominated in Euros shall be deemed to be the Dollar Equivalent of the amount in Euros of such Revolving Credit Loan, determined as of such Quarterly Date or, in the case of a Currency Valuation Notice received by the Managing Administrative Agent prior to 11:00 a.m., New York City time, on a U.S. Government Securities Business Day, on such Business Day or, in the case of a Currency Valuation Notice otherwise received, on the first Business Day after such Currency Valuation Notice is received. Upon making such determination, the Managing Administrative Agent shall promptly notify the Lenders and the Company thereof.

(ii) Prepayment. If, on the date of such determination the aggregate Revolving Credit Exposure exceeds 105% of the aggregate amount of the Commitments as then in effect, the Managing Administrative Agent shall notify the Company and within three Business Days (or, in the case of a prepayment of SOFR Loans, three U.S. Government

Securities Business Days) of the delivery of such notice each applicable Borrower shall prepay its Revolving Credit Loans or Swing Line Loans in such amounts as shall be necessary so that after giving effect thereto the aggregate Revolving Credit Exposure does not exceed the aggregate amount of the Commitments as then in effect.

For purposes hereof, “Currency Valuation Notice” means a notice given by the Required Lenders to the Managing Administrative Agent stating that such notice is a “Currency Valuation Notice” and requesting that the Managing Administrative Agent determine the aggregate Revolving Credit Exposure. The Managing Administrative Agent shall not be required to make more than one valuation determination pursuant to Currency Valuation Notices within any three-month period.

Any prepayment pursuant to this paragraph (b) shall be applied, first, to Swing Line Loans outstanding and second, to Revolving Credit Loans outstanding.

(c) Notices, Etc. Prepayments pursuant to Section 2.6(a) may be made upon at least three Business Days’ (or, in the case of a prepayment of SOFR Loans, two U.S. Government Securities Business Days’) irrevocable notice if such prepayment is to be applied in whole or in part to Term Benchmark Loans, and upon same day notice otherwise (which notices shall be made on the relevant day not later than 11:00 A.M., New York City time), specifying the date, Currency and amount of prepayment and whether the prepayment is of Term Benchmark Loans, or a combination of Term Benchmark Loans and ABR Loans, and, if of a combination thereof, the amount allocable to each. Upon receipt of any such notice the Managing Administrative Agent shall promptly notify each Lender thereof. If any such notice is given, the amount specified in such notice shall be due and payable on the date specified therein, together with any accrued interest to such date on the amount prepaid and any other amounts payable pursuant to Section 2.17, provided that a notice of prepayment delivered by the applicable Borrower may state that such notice is conditioned upon the effectiveness of other credit facilities, in which case such notice may be revoked by such Borrower (by notice to the Managing Administrative Agent on or prior to the specified effective date) if such condition is not satisfied. Partial prepayments shall be in an aggregate principal amount of (i) with respect to Loans denominated in Dollars, \$10,000,000 or a whole multiple of \$1,000,000 in excess thereof and (ii) with respect to Loans denominated in Euros, €10,000,000 or a whole multiple of €1,000,000 in excess thereof. Prepayments of any Swing Line Loan shall be as provided in subsection 2.13(a).

2.7 Conversion and Continuation Options. (a) Any Borrower may elect from time to time to convert SOFR Loans to ABR Loans by giving the Managing Administrative Agent at least three U.S. Government Securities Business Days’ prior irrevocable notice of such election, provided that any such conversion of such SOFR Loans may only be made on the last day of an Interest Period with respect thereto. Any Borrower may elect from time to time to convert ABR Loans to SOFR Loans by giving the Managing Administrative Agent at least three U.S. Government Securities Business Days’ prior irrevocable notice of such election. Any such notice of conversion to SOFR Loans shall specify the length of the initial Interest Period or Interest Periods therefor. Upon receipt of any such notice the Managing Administrative Agent shall promptly notify each Lender thereof. All or any part of outstanding SOFR Loans and ABR Loans may be converted as provided herein, provided that (i) no Revolving Credit Loan may be

converted into a SOFR Loan when any Event of Default has occurred and is continuing and the Managing Administrative Agent has or the Required Lenders have determined that such a conversion is not appropriate, (ii) no Swing Line Loan may be converted into a loan that bears interest at any rate other than the ABR, (iii) a Revolving Credit Loan denominated in one Currency may not be converted to a Revolving Credit Loan in a different Currency and (iv) a EURIBO Loan may not be converted to a Loan of a different Type.

(b) Any Term Benchmark Loans may be continued as such upon the expiration of the then current Interest Period with respect thereto by the applicable Borrower giving notice to the Managing Administrative Agent, in accordance with the applicable provisions of the term “Interest Period” set forth in Section 1.1, of the length of the next Interest Period to be applicable to such Revolving Credit Loans, provided that (i) no SOFR Loan may be continued as such when any Event of Default has occurred and is continuing and the Managing Administrative Agent has or the Required Lenders have determined that such a conversion is not appropriate then any such SOFR Loan shall be automatically converted to an ABR Loan on the last day of the Interest Period for such SOFR Loan, (ii) no EURIBO Loan may have an Interest Period of more than one month’s duration when any Event of Default has occurred and is continuing and the Managing Administrative Agent has or the Required Lenders have made such determination, (iii) a Revolving Credit Loan denominated in one Currency may not be continued as a Loan in a different Currency, but instead must be prepaid in the original Currency of such Revolving Credit Loan and reborrowed in the other Currency and (iv) no EURIBO Loan may be continued if, after giving effect thereto, the aggregate Revolving Credit Exposures would exceed the aggregate Commitments; and provided, further, that if the applicable Borrower shall fail to give such notice or if such continuation is not permitted such Revolving Credit Loans shall (in the case of failure to give such notice, if such Borrower would have then been entitled to select a one month Interest Period for such Term Benchmark Loan) be automatically converted to Term Benchmark Loans with an Interest Period of one month on the last day of such then expiring Interest Period or, in all other cases (if such Loan is denominated in Dollars), be converted to ABR Loans.

2.8 Minimum Amounts of Tranches. All borrowings, conversions and continuations of Revolving Credit Loans hereunder and all selections of Interest Periods hereunder shall be in such amounts and be made pursuant to such elections so that, after giving effect thereto, the aggregate principal amount of the Revolving Credit Loans comprising each Tranche shall be equal to (i) in the case of Revolving Credit Loans denominated in Dollars, \$10,000,000 or a whole multiple of \$1,000,000 in excess thereof (except as necessary to apply fully the required amount of a mandatory prepayment) and (i) in the case of Revolving Credit Loans denominated in Euros, €10,000,000 or a whole multiple of €1,000,000 in excess thereof (except as necessary to apply fully the required amount of a mandatory prepayment). In no event shall there be more than ten Tranches outstanding at any time.

2.9 Interest Rates and Payment Dates. (a) Each SOFR Loan shall bear interest for each day during each Interest Period with respect thereto at a rate per annum equal to Adjusted Term SOFR for such Interest Period plus the Applicable Margin. Each EURIBO Loan shall bear interest for each day during each Interest Period with respect thereto at a rate per annum equal to the EURIBO Rate for such Interest Period plus the Applicable Margin.

(b) Each ABR Loan and Swing Line Loan shall bear interest at a rate per annum equal to the ABR plus the Applicable Margin.

(c) If all or a portion of (i) any principal of any Revolving Credit Loan or Swing Line Loan, (ii) any interest payable thereon, (iii) any facility fee or (iv) any other amount payable hereunder shall not be paid when due (whether at the stated maturity, by acceleration or otherwise), any such overdue amount shall bear interest at a rate per annum which is (x) in the case of any such overdue principal, the rate that would otherwise be applicable thereto pursuant to the foregoing provisions of this Section plus 2% per annum or (y) in the case of any such overdue interest, facility fee or other amount, the rate applicable to ABR Loans pursuant to subsection 2.9(b) plus 2% per annum, in each case from the date of such non-payment until such overdue principal, interest, facility fee or other amount is paid in full (as well after as before judgment).

(d) Interest on Revolving Credit Loans and Swing Line Loans shall be payable in arrears on each Interest Payment Date, provided that interest accruing pursuant to paragraph (c) of this Section shall be payable from time to time on demand.

(e) Payments of interest on the Revolving Credit Loans shall be made in the same Currency in which the Revolving Credit Loan was made.

(f) In connection with the use or administration of Term SOFR, the Managing Administrative Agent will have the right to make Conforming Changes in consultation with the Company from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document. The Managing Administrative Agent will promptly notify the Company and the Lenders of the effectiveness of any Conforming Changes (after consultation with the Company) in connection with the use or administration of Term SOFR.

2.10 Computation of Interest and Fees. (a) Whenever it is calculated by reference to the defined term “ABR”, interest shall be calculated on the basis of a 365- (or 366-, as the case may be) day year for the actual days elapsed; and, otherwise, interest and the facility fee shall be calculated on the basis of a 360-day year for the actual days elapsed. The Managing Administrative Agent shall as soon as practicable notify the Company and the Lenders of each determination of Adjusted Term SOFR or a EURIBO Rate. Any change in the interest rate on a Loan resulting from a change in the ABR shall become effective as of the opening of business on the day on which such change becomes effective. The Managing Administrative Agent shall as soon as practicable notify the Company and the Lenders of the effective date and the amount of each such change in interest rate.

(b) Each determination of an interest rate by the Managing Administrative Agent pursuant to any provision of this Agreement shall be conclusive and binding on each Borrower and the Lenders in the absence of manifest error.

## 2.11 Interest Rate Determination.

(a) Subject to paragraphs (b) through (f) of this Section 2.11, if prior to the first day of any Interest Period for Revolving Credit Loans denominated in any Currency (the Currency of such Loans herein called the “Affected Currency”):

(i) the Managing Administrative Agent determines that adequate and reasonable means do not exist for ascertaining the Relevant Rate for any Interest Period for such Affected Currency; or

(ii) the Required Lenders notify the Managing Administrative Agent that the Relevant Rate for any Interest Period for such Affected Currency will not adequately and fairly reflect the cost to such Required Lenders of funding or maintaining their respective Term Benchmark Loans for such Interest Period

the Managing Administrative Agent shall give telecopy or telephonic notice thereof to the applicable Borrower and the Lenders as soon as practicable thereafter. If such notice is given, and during such period until such circumstances described in paragraph (i) and (ii) above cease to exist, (x) if the Affected Currency is Dollars, any SOFR Loans requested to be made on the first day of such Interest Period shall be made as ABR Loans, (y) if the Affected Currency is Euros, any request to make EURIBO Loans shall be ineffective, (z) any conversion or continuation request that requests the conversion of any Revolving Credit Loans to, or the continuation of any Revolving Credit Loans as, Term Benchmark Loans denominated in the Affected Currency shall be ineffective and if the Affected Currency is Dollars, such Revolving Credit Loans (unless prepaid) shall be continued as, or converted to, ABR Loans. Until such notice has been withdrawn by the Managing Administrative Agent (it being understood that the Managing Administrative Agent shall promptly withdraw any such notice if the circumstances described in paragraphs (i) and (ii) above cease to exist) (A) no further Term Benchmark Loans denominated in the Affected Currency shall be made or continued as such, nor (B) if the Affected Currency is Dollars, shall any Borrower have the right to convert ABR Loans to SOFR Loans. Except as required pursuant to this Section 2.11, if the Managing Administrative Agent determines (which determination shall be conclusive and binding absent manifest error) that “Adjusted Term SOFR” cannot be determined pursuant to the definition thereof on any given day, the interest rate on ABR Loans shall be determined by the Managing Administrative Agent without reference to clause (ii) of the definition of “ABR” until the Managing Administrative Agent revokes such determination. Notwithstanding the foregoing, if the Managing Administrative Agent has made the determination described in clause (i) or (ii) above with respect to Euros, the Managing Administrative Agent, in consultation with the Company and the Lenders, may establish an alternative interest rate for EURIBO Loans, in which case, such alternative rate of interest shall apply with respect to any outstanding EURIBO Loans, until (1) the Managing Administrative Agent revokes the notice delivered with respect to the first sentence of this Section 2.11(a), (2) the Managing Administrative Agent or the Required Lenders notify the Company (and, if such notice is given by the Required Lenders, the Managing Administrative Agent) that such alternative interest rate does not adequately and fairly reflect the cost to such Lenders of funding the EURIBO Loans, or (3) any Lender determines that any law has made it unlawful, or that any Governmental Authority has asserted that it is unlawful, for such Lender or its applicable lending office to fund or maintain Loans whose interest is determined by reference to such alternative rate of interest or to determine or charge interest rates based upon such rate or any Governmental Authority has imposed material restrictions on the

authority of such Lender to do any of the foregoing and provides the Managing Administrative Agent and the Borrowers written notice thereof.

(b) Notwithstanding anything to the contrary herein or in any other Loan Document, upon the occurrence of a Benchmark Transition Event with respect to any Benchmark, the Managing Administrative Agent and the Company may amend this Agreement to replace such Benchmark with a Benchmark Replacement. Any such amendment with respect to a Benchmark Transition Event will become effective at 5:00 p.m. (New York City time) on the fifth (5<sup>th</sup>) Business Day after the Managing Administrative Agent has posted such proposed amendment to all affected Lenders and the Company so long as the Managing Administrative Agent has not received, by such time, written notice of objection to such amendment from Lenders comprising the Required Lenders. No replacement of a Benchmark with a Benchmark Replacement pursuant to this Section 2.11(b) will occur prior to the applicable Benchmark Transition Start Date.

(c) Benchmark Replacement Conforming Changes. In connection with the use, administration, adoption or implementation of a Benchmark Replacement, the Managing Administrative Agent will have the right to make Conforming Changes in consultation with the Company from time to time and, notwithstanding anything to the contrary herein or in any other Loan Document, any amendments implementing such Conforming Changes will become effective without any further action or consent of any other party to this Agreement or any other Loan Document.

(d) Notices; Standards for Decisions and Determinations. The Managing Administrative Agent will promptly notify the Company and the Lenders of (i) the implementation of any Benchmark Replacement and (ii) the effectiveness of any Conforming Changes in connection with the use, administration, adoption or implementation of a Benchmark Replacement. The Managing Administrative Agent will notify the Company of (x) the removal or reinstatement of any tenor of a Benchmark pursuant to Section 2.11(e) and (y) the commencement of any Benchmark Unavailability Period. Any determination, decision or election that may be made by the Managing Administrative Agent or, if applicable, any Lender (or group of Lenders) pursuant to this Section 2.11, including any determination with respect to a tenor, rate or adjustment or of the occurrence or non-occurrence of an event, circumstance or date and any decision to take or refrain from taking any action or any selection, will be conclusive and binding absent manifest error and may be made in its or their sole discretion and without consent from any other party to this Agreement or any other Loan Document, except, in each case, as expressly required pursuant to this Section 2.11.

(e) Unavailability of Tenor of Benchmark. Notwithstanding anything to the contrary herein or in any other Loan Document, at any time (including in connection with the implementation of a Benchmark Replacement), (i) if any then-current Benchmark is a term rate (including the Term SOFR Reference Rate or the EURIBO Rate) and either (A) any tenor for such Benchmark is not displayed on a screen or other information service that publishes such rate from time to time as selected by the Managing Administrative Agent in its reasonable discretion or (B) the regulatory supervisor for the administrator of such Benchmark has provided a public statement or publication of information announcing that any tenor for such Benchmark is not or



will not be representative, then the Managing Administrative Agent may modify the definition of “Interest Period” (or any similar or analogous definition) for any Benchmark settings at or after such time to remove such unavailable or non-representative tenor and (ii) if a tenor that was removed pursuant to clause (i) above either (A) is subsequently displayed on a screen or information service for a Benchmark (including a Benchmark Replacement) or (B) is not, or is no longer, subject to an announcement that it is not or will not be representative for a Benchmark (including a Benchmark Replacement), then the Managing Administrative Agent may modify the definition of “Interest Period” (or any similar or analogous definition) for all Benchmark settings at or after such time to reinstate such previously removed tenor.

(f) Benchmark Unavailability Period. Upon the Company’s receipt of notice of the commencement of a Benchmark Unavailability Period with respect to a given Benchmark, (i) the Company may revoke any pending request for a Term Benchmark Borrowing of, conversion to or continuation of Term Benchmark Loans to be made, converted or continued during any Benchmark Unavailability Period denominated in the applicable Currency and, failing that, (A) in the case of any request for any affected SOFR Borrowing, the Company will be deemed to have converted any such request into a request for a Borrowing of or conversion to ABR Loans in the amount specified therein and (B) in the case of any request for any affected EURIBO Borrowing, then such request shall be ineffective and (ii)(A) any outstanding affected SOFR Loans, if applicable, will be deemed to have been converted into ABR Loans at the end of the applicable Interest Period and (B) any outstanding affected EURIBO Loans, at the Company’s election, shall either (I) be converted into ABR Loans denominated in Dollars (in an amount equal to the Dollar Equivalent of Euros) at the end of the applicable Interest Period or (II) be prepaid in full at the end of the applicable Interest Period; provided that, if no election is made by the Company by the earlier of (x) the date that is three Business Days after receipt by the Company of such notice and (y) the last day of the current Interest Period for the applicable EURIBO Loan, the Company shall be deemed to have elected clause (I) above. Upon any such prepayment or conversion, the Company shall also pay accrued interest on the amount so prepaid or converted, together with any additional amounts required pursuant to Section 2.17. During a Benchmark Unavailability Period with respect to any Benchmark or at any time that a tenor for any then-current Benchmark is not an Available Tenor, the component of ABR based upon the then-current Benchmark that is the subject of such Benchmark Unavailability Period or such tenor for such Benchmark, as applicable, will not be used in any determination of ABR.

2.12 Pro Rata Treatment and Payments. (a) Except as provided in Section 2.18(d), each borrowing of Revolving Credit Loans by each Borrower from the Lenders hereunder, each payment by the Company on account of any facility fee hereunder and any reduction of the Commitments of the Lenders shall be made pro rata according to the respective Commitment Percentages of the Lenders. Each payment (including each prepayment) by each Borrower on account of principal of and interest on any Loans shall be made pro rata according to the respective outstanding principal amounts of such Loans then held by the Lenders. All payments (including prepayments) to be made by each Borrower hereunder, whether on account of principal, interest, fees or otherwise, shall be made without set-off or counterclaim and shall be made prior to 2:00 P.M., Local Time, on the due date thereof to the Managing Administrative Agent, for the account of the Lenders, at the Managing Administrative Agent’s Account, in immediately available funds. The Managing Administrative Agent shall distribute such payments to the relevant Lenders promptly upon receipt in like funds as received. If any payment hereunder becomes due and payable on a day other than a Business Day, such payment

shall be extended to the next succeeding Business Day, and, with respect to payments of principal, interest thereon shall be payable at the then applicable rate during such extension. All amounts owing under this Agreement (including facility fees, payments required under Section 2.15 and payments required under Sections 2.16 and 2.17 relating to any Loan denominated in Dollars, but not including principal of, and interest on, any Loan denominated in Euros or payments relating to any such Loan required under Section 2.16 or 2.17, which are payable in Euros) are payable in Dollars.

(b) (i) Unless the Managing Administrative Agent shall have been notified in writing by any Lender prior to a borrowing that such Lender will not make the amount that would constitute its allocable share of such borrowing available to the Managing Administrative Agent, the Managing Administrative Agent may assume that such Lender is making such amount available to the Managing Administrative Agent, and the Managing Administrative Agent may, in reliance upon such assumption, make available to the applicable Borrower a corresponding amount or (ii) in the event that a Lender shall have notified the Managing Administrative Agent in writing that such Lender is unable to make the amount that would constitute its allocable share of such borrowing available to the Managing Administrative Agent on such day solely because such day is a day on which commercial banks in London, England are authorized or required by law to close and requests that the Managing Administrative Agent advance such amount to the Borrower on behalf of such Lender, the Managing Administrative Agent shall, as a result of such notice and request, make available to the applicable Borrower a corresponding amount; provided that in the case of clause (ii), such Lender shall immediately, on the next day on which commercial banks in London, England are open (such day, a “London Business Day”), repay to the Managing Administrative Agent such corresponding amount. If such amount is not made available to the Managing Administrative Agent by the required time on the Borrowing Date therefor, or, in the case of clause (ii), the next succeeding London Business Day, such Lender shall pay to the Managing Administrative Agent, on demand, such amount with interest thereon at a rate equal to the daily average New York Fed Bank Rate (or, with respect to amounts denominated in Euros, at the average rate per annum at which overnight deposits in Euros in an amount approximately equal to the amount which respect to which such rate is being determined, would be offered for such day by a branch or Affiliate of the Managing Administrative Agent in the applicable offshore interbank market for such Currency to major banks in such interbank market) for the period until such Lender makes such amount immediately available to the Managing Administrative Agent. A certificate of the Managing Administrative Agent submitted to any Lender with respect to any amounts owing under this Section shall be conclusive in the absence of manifest error. If such Lender’s Commitment Percentage of such borrowing is not made available to the Managing Administrative Agent by such Lender within three Business Days of such Borrowing Date, or, in the case of clause (ii), within three Business Days of the next succeeding London Business Day, the Managing Administrative Agent shall also be entitled to recover such amount with interest thereon at the rate per annum applicable to ABR Loans hereunder (or, with respect to amounts denominated in Euros, at the rate per annum applicable to EURIBO Loans), on demand, from the applicable Borrower. If any such Lender shall subsequently pay its Commitment Percentage of such borrowing with interest thereon to the Managing Administrative Agent, the Managing Administrative Agent shall promptly remit to the applicable Borrower the amount of such interest paid by such Borrower for such period pursuant to the immediately preceding sentence.

2.13 Swing Line Commitment. (a) Subject to the terms and conditions hereof, each Swing Line Lender agrees to make swing line loans ("Swing Line Loans") in Dollars to the Company from time to time during the Commitment Period in an aggregate principal amount at any one time outstanding not to exceed the lesser of the amount of such Swing Line Lender's Swing Line Commitment and the amount of such Swing Line Lender's Commitment, provided that (i) the aggregate principal amount of all Loans outstanding at any one time shall not exceed the aggregate amount of the Commitments at such time, (ii) the aggregate principal amount of Revolving Credit Loans of such Lender outstanding at any time, when added to such Lender's Swing Line Exposure (including, as applicable, in its capacity as Swing Line Lender) shall not exceed the aggregate amount of the Commitment of such Lender at such time and (iii) the aggregate principal amount of all Swing Line Loans outstanding at any one time shall not exceed \$2,250,000,000. If the aggregate amount of all Swing Line Commitments is at any time less than \$2,250,000,000 (such shortfall, the "Swing Line Commitment Shortfall"), the Company may designate one or more of the other existing Lenders as Swing Line Lenders (it being understood that the Swing Line Commitments of any such Lender may, at the option of such Lender, exceed its Commitment), having Swing Line Commitments in an aggregate amount not exceeding the Swing Line Commitment Shortfall; provided that no Lender may be so designated unless it agrees in its sole discretion to act in such capacity. The Swing Line Commitment of each Swing Line Lender (unless otherwise agreed by such Swing Line Lender) shall be reduced as follows: (x) upon any reduction of the Commitment of any Lender that is also a Swing Line Lender pursuant to Section 2.4, the Swing Line Commitment of such Swing Line Lender shall be reduced by the same proportion as such Commitment is so reduced and (y) upon any assignment by such Swing Line Lender of all or any portion of its Swing Line Commitment pursuant to subsection 9.6(c) and the assumption by the relevant assignee of the amount of such Swing Line Commitment so assigned, the Swing Line Commitment of such Swing Line Lender shall be reduced by the amount of its Swing Line Commitment so assigned. During the Commitment Period, the Company may use the Swing Line Commitment by borrowing, prepaying the Swing Line Loans in whole or in part, and reborrowing, all in accordance with the terms and conditions hereof. All Swing Line Loans shall bear interest based upon the ABR and shall not be entitled to be converted into loans that bear interest at any other rate. The Company shall either (x) give the relevant Swing Line Lender (with a copy to the Managing Administrative Agent) irrevocable notice substantially in the form of Exhibit L (which notice must be received by the Swing Line Lender prior to 4:00 P.M., New York City time, on the requested Borrowing Date specifying the amount of the requested Swing Line Loan which shall be in a minimum amount of \$100,000 or a whole multiple of \$50,000 in excess thereof), or (y) if there are eight or fewer Swing Line Lenders, give such notice to the Managing Administrative Agent (which notice must be received by the Managing Administrative Agent prior to 4:00 P.M., New York City time, on the requested Borrowing Date) and the Managing Administrative Agent will provide a copy of such notice to each Swing Line Lender prior to 5:00 P.M., New York City time, on the requested Borrowing Date, and, in the case of this clause (y), each Swing Line Lender shall be obligated to make a Swing Line Loan in an amount equal to its pro rata share, determined on the basis of the respective unused Swing Line Commitments of the Swing Line Lenders, of the requested amount set forth in such notice. The proceeds of the Swing Line Loan will be made available by each applicable Swing Line Lender to the Company at the office of each applicable Swing Line Lender by 5:00 P.M., New York City time, on the Borrowing Date by crediting the account of the Company at such office with such proceeds. The Company may, at any time and from time

to time, prepay the Swing Line Loans of any Swing Line Lender, in whole or in part, without premium or penalty, by notifying such Swing Line Lender prior to 4:00 P.M., New York City time, on any Business Day of the date and amount of prepayment. If any such notice is given, the amount specified in such notice shall be due and payable on the date specified therein. Partial prepayments shall be in an aggregate principal amount of \$100,000 or a whole multiple of \$50,000 in excess thereof.

(b) The Company hereby unconditionally promises to pay to the Managing Administrative Agent for the account of each Swing Line Lender the unpaid principal amount of each Swing Line Loan of such Swing Line Lender on the Revolving Credit Termination Date (or such earlier date on which the Swing Line Loans become due and payable pursuant to Section 7). The Swing Line Loans shall, at the request of any Swing Line Lender, be evidenced by and repayable with interest in accordance with a promissory note of the Company substantially in the form of Exhibit B to this Agreement, with appropriate insertions (a “Swing Line Note”), payable to such Swing Line Lender and representing the obligation of the Company to pay the amount of the Swing Line Commitment of such Swing Line Lender or, if less, the unpaid principal amount of the Swing Line Loans owing to such Swing Line Lender, with interest thereon as prescribed in Section 2.9. Each Swing Line Lender is hereby authorized to record the Borrowing Date, the amount of each Swing Line Loan made by such Swing Line Lender and the date and amount of each payment or prepayment of principal thereof, on the schedule annexed to and constituting a part of the Swing Line Note of such Swing Line Lender and any such recordation shall constitute conclusive evidence (absent manifest error) of the accuracy of the information so recorded, provided that the failure by such Swing Line Lender to make any such recordation shall not affect any of the obligations of the Company under such Swing Line Note or this Agreement. Each Swing Line Note shall (a) be dated the Fourth Restatement Effective Date, (b) be stated to mature on the Revolving Credit Termination Date and (c) bear interest for the period from the date thereof until paid in full on the unpaid principal amount thereof from time to time outstanding at the applicable interest rate per annum determined as provided in, and payable as specified in, Section 2.9.

(c) Any Swing Line Lender at any time in its sole and absolute discretion may, on behalf of the Company (which hereby irrevocably directs each Swing Line Lender to act on its behalf) request each Lender, including each Swing Line Lender, to make a Revolving Credit Loan that shall be initially an ABR Loan in an amount equal to such Lender’s Commitment Percentage of the amount of the Swing Line Loans of such Swing Line Lender outstanding on the date such notice is given (the “Outstanding Swing Line Loans”). Unless any of the events described in paragraph (f) of Section 7 shall have occurred with respect to the Company (in which event the procedures of paragraph (e) of this Section shall apply) each Lender shall make the proceeds of its Revolving Credit Loan available to the Managing Administrative Agent for the account of such Swing Line Lender at the Managing Administrative Agent’s Account prior to 12:00 Noon, New York City time, in funds immediately available on the Business Day next succeeding the date such notice is given. The proceeds of such Revolving Credit Loans shall be immediately applied to repay such outstanding Swing Line Loans. Effective on the day such Revolving Credit Loans are made, the portion of the Swing Line Loans so paid shall no longer be outstanding as Swing Line Loans, shall no longer be due under each Swing Line Note of such Swing Line Lender and shall be evidenced as provided in subsection 2.5(b).

(d) Notwithstanding anything herein to the contrary, no Swing Line Lender shall be obligated to make any Swing Line Loans if the conditions set forth in Section 4.2 have not been satisfied.

(e) If prior to the making of a Revolving Credit Loan pursuant to subsection 2.13(c) one of the events described in paragraph (f) of Section 7 shall have occurred and be continuing with respect to the Company, each Lender will, on the date such Revolving Credit Loan was to have been made pursuant to the notice in subsection 2.13(c), purchase an undivided participating interest in each Outstanding Swing Line Loan in an amount equal to (i) its Commitment Percentage *times* (ii) the principal amount of such Swing Line Loan then outstanding. Each Lender will immediately transfer to the relevant Swing Line Lender, in immediately available funds, the amount of its participation, and upon receipt thereof such Swing Line Lender will deliver to such Lender a Swing Line Loan Participation Certificate dated the date of receipt of such funds and in such amount.

(f) Whenever, at any time after any Lender has purchased a participating interest in a Swing Line Loan of any Swing Line Lender, such Swing Line Lender receives any payment on account thereof, such Swing Line Lender will distribute to such Lender its participating interest in such amount (appropriately adjusted, in the case of interest payments, to reflect the period of time during which such Lender's participating interest was outstanding and funded); provided, however, that in the event that such payment received by the Swing Line Lender is required to be returned, such Lender will return to such Swing Line Lender any portion thereof previously distributed by such Swing Line Lender to it.

(g) Each Lender's obligation to make the Revolving Credit Loans referred to in subsection 2.13(c) and to purchase participating interests pursuant to subsection 2.13(e) shall be absolute and unconditional and shall not be affected by any circumstance, including, without limitation, (i) any set-off, counterclaim, recoupment, defense or other right which such Lender or the Company may have against any Swing Line Lender, the Company, any Subsidiary Borrower or any other Person for any reason whatsoever, (ii) the occurrence or continuance of a Default or an Event of Default or termination of the Commitments; (iii) any adverse change in the condition (financial or otherwise) of the Company; (iv) any breach of this Agreement or any other Loan Document by the Company, any Subsidiary or any other Lender; or (v) any other circumstance, happening or event whatsoever, whether or not similar to any of the foregoing.

(h) If a Lender becomes, and during the period it remains, a Defaulting Lender, any Swing Line Lender may, upon prior written notice to the Company and the Managing Administrative Agent, resign as a Swing Line Lender, effective at the close of business New York time on a date specified in such notice (which date may not be less than three Business Days after the date of such notice); provided that (i) no Swing Line Lender may so resign unless both (x) such Defaulting Lender's Swing Line Exposure cannot be fully reallocated under Section 2.21(c)(i) and (y) the Company fails to comply with its obligations under Section 2.21(c) (ii) and (ii) such resignation by a Swing Line Lender will have no effect on its rights in respect of any outstanding Swing Line Loans or on the obligations of the Company, any Lender or any other Swing Line Lender under this Agreement with respect to any such outstanding Swing Line Loans.

2.14 Illegality. Notwithstanding any other provision herein, if the adoption of or any change in any Requirement of Law or in the interpretation or application thereof shall make it unlawful for any Lender to make or maintain Term Benchmark Loans denominated in any Currency as contemplated by this Agreement then, on notice by such Lender to the Company through the Managing Administrative Agent, (a) the commitment of such Lender hereunder to make Term Benchmark Loans denominated in such Currency, continue Term Benchmark Loans denominated in such Currency as such and, if such Currency is Dollars, convert ABR Loans to SOFR Loans shall forthwith be cancelled, (b) if such Currency is Dollars, such Lender's Loans then outstanding as SOFR Loans, if any, shall be converted automatically to ABR Loans on the respective last days of the then current Interest Periods with respect to such Loans or within such earlier period as required by law and (c) if such Currency is Euros, such Lender's Loans then outstanding as EURIBO Loans, if any, shall be repaid on the respective last days of the then current Interest Periods with respect to such Loans or within such earlier period as required by law. If any such conversion or repayment of a Term Benchmark Loan occurs on a day which is not the last day of the then current Interest Period with respect thereto, the applicable Borrower shall pay to such Lender such amounts, if any, as may be required pursuant to Section 2.17.

2.15 Requirements of Law. (a) If the adoption of or any change in any Requirement of Law or in the interpretation or application thereof or compliance by any Lender with any request or directive (whether or not having the force of law) from any central bank or other Governmental Authority made subsequent to the date hereof:

(i) shall subject any Lender to any tax of any kind whatsoever with respect to this Agreement, any Note or any Term Benchmark Loan made by it, or change the basis of taxation of payments to such Lender in respect thereof (except for Indemnified Taxes, Excluded Taxes and changes in the rate of tax on the overall net income of such Lender);

(ii) shall impose, modify or hold applicable any reserve (including pursuant to regulations issued from time to time by the Board for determining the maximum reserve requirement (including any emergency, special, supplemental or other marginal reserve requirement)) with respect to eurocurrency funding (currently referred to as "Eurocurrency liabilities" in Regulation D), special deposit, compulsory loan or similar requirement against assets held by, deposits or other liabilities in or for the account of, advances, loans or other extensions of credit by, or any other acquisition of funds by, any office of such Lender; or

(iii) shall impose on such Lender any other condition;

and the result of any of the foregoing is to increase the cost to such Lender, by an amount which such Lender deems to be material, of making, converting into, continuing or maintaining Term Benchmark Loans or to reduce any amount receivable hereunder in respect thereof, then, in any such case, the Company shall promptly pay such Lender in Dollars such additional amount or amounts as will compensate such Lender for such increased cost or reduced amount receivable.

(b) If any Lender shall have determined that the adoption of or any change in any Requirement of Law regarding liquidity or capital adequacy requirements or in the interpretation or application thereof or compliance by such Lender or any corporation controlling such Lender with any request or directive regarding liquidity or capital adequacy requirements

(whether or not having the force of law) from any Governmental Authority made subsequent to the date hereof shall have the effect of reducing the rate of return on such Lender's or such corporation's capital as a consequence of its obligations hereunder to a level below that which such Lender or such corporation could have achieved but for such adoption, change or compliance (taking into consideration such Lender's or such corporation's policies with respect to capital adequacy and liquidity) by an amount deemed by such Lender to be material, then from time to time, the Company shall promptly pay to such Lender in Dollars such additional amount or amounts as will compensate such Lender for such reduction.

(c) If any Lender becomes entitled to claim any additional amounts pursuant to paragraphs (a) or (b) of this Section 2.15, it shall promptly notify the Company (with a copy to the Managing Administrative Agent) of the event by reason of which it has become so entitled and of the basis for the calculation of such additional amounts; provided that the Company shall not be required to compensate a Lender pursuant to such paragraph for any increased costs incurred more than 180 days prior to the date that such Lender notifies the Company of the change giving rise to such increased costs and of such Lender's intention to claim compensation therefor; provided, further that, if the change giving rise to such increased costs is retroactive, then the 180-day period referred to above shall be extended to include the period of retroactive effect thereof, and provided, further, that no Lender shall claim any additional amounts pursuant to paragraphs (a) or (b) of this Section 2.15 unless such Lender is generally seeking similar reimbursement from similarly situated borrowers and the compensation claimed pursuant to such paragraphs is not in excess of the corresponding amounts that such Lender is seeking from such similarly situated borrowers (it being understood that no such Lender shall be required to disclose information regarding such similarly situated borrowers). A certificate as to any additional amounts payable pursuant to this Section submitted by such Lender to the Company (with a copy to the Managing Administrative Agent), describing the basis for the calculation of such amounts, shall be conclusive in the absence of manifest error. The agreements in this Section shall survive the termination of this Agreement and the payment of the Loans and all other amounts payable hereunder.

(d) For purposes of Section 2.14 and this Section 2.15, (i) the Dodd-Frank Wall Street Reform and Consumer Protection Act and all rules, regulations, orders, requests, guidelines or directives in connection therewith and (ii) rules, regulations, orders, requests, guidelines or directives promulgated by the Bank for International Settlements, the Basel Committee on Banking Supervision (or any successor or similar authority) or the United States or foreign regulatory authorities, in each case pursuant to Basel III, shall in each case be deemed to have been adopted and gone into effect after the date of this Agreement.

(e) Each Lender agrees that, upon the occurrence of any event giving rise to the operation of Section 2.14, 2.15(a), (b) or (c) or payment of additional amounts under Section 2.16 with respect to such Lender, it will, if requested by the Company, use reasonable efforts (subject to overall policy considerations of such Lender) to designate another lending office for any Loans affected by such event with the object of avoiding the consequences of such event or reducing additional amounts payable under Section 2.16; provided that such designation is made on terms that, in the sole judgment of such Lender, would not subject such Lender to any unreimbursed cost or expense and would not otherwise cause such Lender and its lending office(s) to suffer no economic, legal or regulatory disadvantage, and provided, further, that

nothing in this Section shall affect or postpone any of the obligations of any Borrower or the rights of any Lender pursuant to Section 2.14, 2.15(a), (b) or (c), or 2.16.

(f) For the purposes of this Section 2.15, each reference to the defined term “Lender” shall be deemed to include each Swing Line Lender.

2.16 Taxes. (a) All payments made by any Borrower under this Agreement and any Notes shall be made free and clear of, and without deduction or withholding for or on account of any Taxes, unless required by applicable law. If any such Taxes are required to be withheld from any amounts payable to the Managing Administrative Agent or any Lender hereunder or under any Note, (i) the relevant Borrower or the Managing Administrative Agent shall be entitled to make such withholding and shall pay the full amount withheld to the relevant Governmental Authority in accordance with applicable law, and (ii) if such Taxes are Indemnified Taxes, the amounts so payable to the Managing Administrative Agent or such Lender shall be increased to the extent necessary to yield to the Managing Administrative Agent or such Lender (after payment of all Indemnified Taxes) interest or any such other amounts payable hereunder at the rates or in the amounts specified in this Agreement. Whenever any Taxes to which this Section 2.16 applies are payable by the relevant Borrower to a Governmental Authority, as promptly as possible thereafter such Borrower shall send to the Managing Administrative Agent for its own account or for the account of such Lender, as the case may be, a certified copy of an original official receipt received by the Borrower showing payment thereof or other evidence of such payment reasonably satisfactory to the Managing Administrative Agent. If the relevant Borrower fails to pay any Indemnified Taxes when due to the appropriate taxing authority or fails to remit to the Managing Administrative Agent the required receipts or other required documentary evidence, such Borrower shall indemnify the Managing Administrative Agent and the Lenders for any incremental taxes, interest or penalties that may become payable by the Managing Administrative Agent or any Lender as a result of any such failure. The relevant Borrower shall timely pay to the relevant Governmental Authority in accordance with applicable law, or at the option of the Managing Administrative Agent timely reimburse it for the payment of, any present or future stamp, court or documentary, intangible, recording, filing or similar Taxes that arise from any payment made under, from the execution, delivery, performance, enforcement or registration of, from the receipt or perfection of a security interest under, or otherwise with respect to, any Loan Document; provided that such Borrower shall not pay any such Taxes that are imposed with respect to an assignment (other than an assignment made pursuant to Section 2.20) that result from a present or former connection between a Lender and the jurisdiction imposing such Tax, other than a connection arising from such Lender having executed, delivered, become a party to, performed its obligations under, received payments under, received or perfected a security interest under, engaged in any other transaction pursuant to or enforced any Loan Document, or sold or assigned an interest in any Loan or Loan Document. The agreements in this Section shall survive the termination of this Agreement and the payment of the Loans and all other amounts payable hereunder.

(b) Any Lender that is entitled to an exemption from or reduction of withholding Tax with respect to payments made under any Loan Document shall deliver to the Borrower and the Managing Administrative Agent, at the time or times reasonably requested by the Borrower or the Managing Administrative Agent, such properly completed and executed documentation reasonably requested by the Borrower or the Managing Administrative Agent as



will permit such payments to be made without withholding or at a reduced rate of withholding. In addition, any Lender, if reasonably requested by the Borrower or the Managing Administrative Agent, shall deliver such other documentation prescribed by applicable law or reasonably requested by the Borrower or the Managing Administrative Agent as will enable the Borrower or the Managing Administrative Agent to determine whether or not such Lender is subject to backup withholding or information reporting requirements. Notwithstanding anything to the contrary in the preceding two sentences, the completion, execution and submission of such documentation (other than such documentation set forth in Section 2.16(b)(i)(x) and (i)(y) below) shall not be required if in the Lender's reasonable judgment such completion, execution or submission would subject such Lender to any material unreimbursed cost or expense or would materially prejudice the legal or commercial position of such Lender. Without limiting the generality of the foregoing, each Lender that is a "United States person" as defined in Section 7701(a)(30) of the Code shall deliver to the Borrower and the Managing Administrative Agent, on or before the date on which it becomes a party to this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Managing Administrative Agent), two properly completed copies of signed United States Internal Revenue Service Form W-9 (or any subsequent versions or successors thereto) certifying that such Lender is exempt from United States federal withholding tax. To the extent it is legally entitled to do so, each Lender that is not a "United States person" as defined in Section 7701(a)(30) of the Code (a "Non-U.S. Lender") shall:

(i) on or before the date such Lender becomes a party to this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Managing Administrative Agent), deliver to the Borrower and the Managing Administrative Agent (x) two duly completed copies of signed United States Internal Revenue Service Form W-8BEN, W-8BEN-E, W-8ECI or W-8IMY, as applicable (together with any applicable underlying United States Internal Revenue Service forms and other certification documents), or any subsequent versions or successors thereto, (y) in the case of a Non-U.S. Lender claiming, in each case, exemption from United States federal withholding tax under Section 871(h) or 881(c) of the Code with respect to payments of "portfolio interest", a statement substantially in the form of Exhibit K-1, K-2, K-3 or K-4 (as applicable) and the applicable United States Internal Revenue Service Form W-8 or any subsequent versions thereof or successors thereto, properly completed and duly executed by such Non-U.S. Lender claiming complete exemption from, or a reduced rate of, United States federal withholding tax on all payments by such Borrower under this Agreement and the other Loan Documents, or (z) any other form prescribed by applicable requirements of United States federal income tax law as a basis for claiming exemption from or a reduction in United States federal withholding tax duly completed together with such documentation as may be prescribed by applicable Requirements of Law to permit the Borrower and the Managing Administrative Agent to determine the withholding or deduction required to be made;

(ii) deliver to the Borrower and the Managing Administrative Agent two further copies of any such form or certification on or before the date that any such form or certification expires or becomes obsolete and after the occurrence of any event requiring a change in the most recent form previously delivered by it to the Borrower or the Managing Administrative Agent; and

(iii) obtain such extensions of time for filing and complete such forms or certifications as may reasonably be requested by the Borrower or the Managing Administrative Agent;

unless in any such case an event (including, without limitation, any change in treaty, law or regulation) has occurred prior to the date on which any such delivery would otherwise be required which renders all such forms inapplicable or which would prevent such Lender from duly completing and delivering any such form with respect to it and such Lender so advises the Borrower and the Managing Administrative Agent. Such Lender shall, to the extent it is legally entitled to do so, certify that it is entitled to receive payments under this Agreement without deduction or withholding of any United States federal income taxes. Each Person that shall become a Lender or a Participant pursuant to Section 9.6 shall, upon the effectiveness of the related transfer, be required to provide all of the forms and statements required pursuant to this Section, provided that in the case of a Participant such Participant shall furnish all such required forms and statements to the Lender from which the related participation shall have been purchased.

(c) If a payment made to the Managing Administrative Agent or any Lender under this Agreement and any Notes would be subject to United States federal withholding Tax imposed by FATCA if the Managing Administrative Agent or any Lender were to fail to comply with the applicable reporting requirements of FATCA (including those contained in Section 1471(b) or 1472(b) of the Code, as applicable), the Managing Administrative Agent or such Lender shall deliver to the Borrower and the Managing Administrative Agent at the time or times prescribed by law and at such time or times reasonably requested by the Borrower or the Managing Administrative Agent such documentation prescribed by applicable law (including as prescribed by Section 1471(b)(3)(C)(i) of the Code) and such additional documentation reasonably requested by the Borrower or the Managing Administrative Agent as may be necessary for the Borrower and the Managing Administrative Agent to comply with their obligations under FATCA and to determine that the Managing Administrative Agent or such Lender has complied with its obligations under FATCA or to determine the amount to deduct and withhold from such payment. Solely for purposes of this clause (c), “FATCA” shall include any amendments made to FATCA after the date of this Agreement.

(d) If the Managing Administrative Agent or any Lender determines, in its sole discretion, exercised in good faith, that it has received a refund (including a refund that the Managing Administrative Agent or any Lender, as applicable, has elected to apply on its tax return for the following year) of any Taxes as to which it has been indemnified by the Borrowers or with respect to which any Borrower has paid additional amounts pursuant to this Section 2.16, it shall pay over such refund to such Borrower (but only to the extent of indemnity payments made, or additional amounts paid, by the Borrowers under this Section 2.16 with respect to the Taxes giving rise to such refund), net of all out-of-pocket expenses of the Managing Administrative Agent or such Lender and without interest (other than any interest paid by the relevant Governmental Authority with respect to such refund); provided that such Borrower, upon the request of the Managing Administrative Agent or such Lender, agrees to repay the amount paid over to such Borrower (plus any penalties, interest or other charges imposed by the relevant Governmental Authority) to the Managing Administrative Agent or such Lender in the event the Managing Administrative Agent or such Lender is required to repay such refund to

such Governmental Authority. Notwithstanding anything to the contrary in this paragraph (d), in no event will the Managing Administrative Agent or any Lender be required to pay any amount to the Borrowers pursuant to this paragraph (d) the payment of which would place the Managing Administrative Agent or any Lender in a less favorable net after-Tax position than the Managing Administrative Agent or any Lender would have been in if the Tax subject to indemnification or payment of additional amounts and giving rise to such refund had not been deducted, withheld or otherwise imposed and the indemnification payments or additional amounts with respect to such Tax had never been paid. This paragraph shall not be construed to require the Managing Administrative Agent or any Lender to make available its Tax returns (or any other information relating to its Taxes that it deems confidential) to the Borrowers or any other Person.

(e) For the purposes of this Section 2.16, each reference to the defined term “Lender” shall be deemed to include each Swing Line Lender.

(f) For the purposes of determining withholding Taxes imposed under FATCA, from and after the Fourth Restatement Effective Date, the Borrowers and the Administrative Agent shall treat (and the Lenders hereby authorize the Administrative Agent to treat) this Agreement as not qualifying as a “grandfathered obligation” within the meaning of Treasury Regulation Section 1.1471-2(b)(2)(i).

2.17 Indemnity. Each Borrower agrees to indemnify each Lender and to hold each Lender harmless from any loss or expense which such Lender may sustain or incur as a consequence of (a) default by such Borrower in making either (i) a borrowing of Term Benchmark Loans or (ii) a conversion into or continuation of Term Benchmark Loans, in each case after such Borrower has given a notice requesting the same in accordance with the provisions of this Agreement (including as a result of an Event of Default), (b) default by such Borrower in making any prepayment after such Borrower has given a notice thereof in accordance with the provisions of this Agreement (regardless of whether such notice is permitted to be revocable under Section 2.4 or 2.6 and is revoked in accordance herewith) or (c) the making of either (i) a prepayment of Term Benchmark Loans or (ii) a conversion of Term Benchmark Loans, in each case on a day which is not the last day of an Interest Period with respect thereto. Such indemnification shall constitute an amount equal to the excess, if any, of (i) the amount of interest which would have accrued on the amount of such Loan denominated in the Currency of such Loan so prepaid, or not so borrowed, converted or continued, for the period from the date of such prepayment or of such failure to borrow, convert or continue to the last day of such Interest Period (or, in the case of a failure to borrow, convert or continue, the Interest Period that would have commenced on the date of such failure) in each case at the applicable rate of interest for such Loans denominated in such Currency provided for herein (excluding, however, the Applicable Margin included therein, if any) over (ii) the amount of interest (as reasonably determined by such Lender) which would have accrued to such Lender on such amount by placing such amount denominated in such Currency on deposit for a comparable period with leading banks in the applicable interbank market. A certificate as to any amounts payable pursuant to this Section shall be submitted to the applicable Borrower by such Lender. This covenant shall survive the termination of this Agreement and the payment of the Loans and all other amounts payable hereunder.

2.18 Commitment Increases. (a) In the event that the Company wishes to increase the aggregate Commitments, it shall notify the Lenders (through the Managing Administrative Agent) of the amount of such proposed increase (such notice, a “Commitment Increase Offer”). Each Commitment Increase Offer shall offer the Lenders the opportunity to participate in the increased Commitments ratably in accordance with their respective Commitment Percentages. In the event that any Lender (each, a “Declining Lender”) shall fail to accept in writing a Commitment Increase Offer within 10 Business Days after receiving notice thereof, all or any portion of the proposed increase in the Commitments offered to the Declining Lenders (the aggregate of such offered amounts, the “Declined Amount”) may instead be allocated to any one or more additional banks, financial institutions or other entities pursuant to paragraph (b) below and/or to any one or more existing Lenders pursuant to paragraph (c)(ii) below.

(b) Any additional bank, financial institution or other entity (each, a “New Lender”) which, with the consent of the Company and the Managing Administrative Agent, elects to become a party to this Agreement and obtain a Commitment in an amount equal to all or any portion of a Declined Amount, shall execute a New Lender Supplement (each, a “New Lender Supplement”) with the Company and the Managing Administrative Agent, substantially in the form of Exhibit J-1, whereupon such New Lender shall become a Lender for all purposes and to the same extent as if originally a party hereto and shall be bound by and entitled to the benefits of this Agreement, and Schedule 1.2 shall be deemed to be amended to add the name and Commitment of such New Lender.

(c) Any Lender which (i) accepts a Commitment Increase Offer pursuant to subsection 2.18(a) or (ii) with the consent of the Company elects to increase its Commitment by an amount equal to all or any portion of a Declined Amount shall, in each case, execute a Commitment Increase Supplement (each, a “Commitment Increase Supplement”) with the Company and the Managing Administrative Agent, substantially in the form of Exhibit J-2, whereupon such Lender shall be bound by and entitled to the benefits of this Agreement with respect to the full amount of its Commitment as so increased, and Schedule 1.2 shall be deemed to be amended to so increase the Commitment of such Lender.

(d) If on the date upon which a bank, financial institution or other entity becomes a New Lender pursuant to subsection 2.18(b) or upon which a Lender’s Commitment is increased pursuant to subsection 2.18(c) there is an unpaid principal amount of Revolving Credit Loans, each Borrower shall borrow Revolving Credit Loans from the Lenders and/or (subject to compliance by the applicable Borrower with Section 2.17) prepay Revolving Credit Loans of the Lenders (which borrowings and prepayments may be on a non-ratable basis) such that, after giving effect thereto, the Revolving Credit Loans (including, without limitation, the Types thereof and Interest Periods with respect thereto) shall be held by the Lenders (including for such purposes the New Lenders) pro rata according to their respective Commitment Percentages.

(e) Notwithstanding anything to the contrary in this Section, (i) in no event shall any transaction effected pursuant to this Section cause (x) the aggregate Commitments to exceed an amount equal to 150% of the aggregate amount of the Commitments in effect on the Fourth Restatement Effective Date or (y) unless otherwise agreed by the Managing Administrative Agent, an increase in the aggregate Commitments of an amount less than \$50,000,000, (ii) the aggregate amount of any increase in Commitments pursuant to

subsection 2.18(b) and (c)(ii) shall be limited to the relevant Declined Amount and (iii) no Lender shall have any obligation to increase its Commitment unless it agrees to do so in its sole discretion.

2.19 Commitment Extensions. (a) The Company may, not earlier than 75 days and not later than 45 days before any anniversary of the Fourth Restatement Effective Date (each, an “Anniversary Date”), but no more than twice in total, by notice to the Managing Administrative Agent, request that the Revolving Credit Termination Date then in effect (the “Existing Revolving Credit Termination Date”) be extended to the date 364 days after the Existing Revolving Credit Termination Date. The Managing Administrative Agent shall promptly notify the Lenders of such request.

(b) Each Lender, in its sole discretion, shall advise the Managing Administrative Agent whether or not such Lender agrees to such extension. If a Lender agrees to such extension (an “Extending Lender”), it shall notify the Managing Administrative Agent, in writing, of its decision to do so no later than 30 days prior to such Anniversary Date. A Lender that determines not to so extend its Commitment shall so notify the Managing Administrative Agent promptly after making such determination and is herein called a “Non-Extending Lender”. If a Lender does not give timely notice to the Managing Administrative Agent of whether or not such Lender agrees to such extension, it shall be deemed to be a Non-Extending Lender; provided that any Non-Extending Lender may, with the consent of the Company and the Managing Administrative Agent (such consent of the Managing Administrative Agent not to be unreasonably withheld), subsequently become an Extending Lender by notice to the Managing Administrative Agent and the Company.

(c) The Managing Administrative Agent shall promptly notify the Company of each Lender’s determination not earlier than 30 days and not later than 20 days prior to the relevant Anniversary Date.

(d) The Company shall have the right to accept Commitments from New Lenders, each of which shall be acceptable to the Managing Administrative Agent, in an aggregate amount not exceeding the aggregate amount of the Commitments of the Non-Extending Lenders, provided that the Company may in its sole discretion, offer to Extending Lenders the option to increase their Commitments (each such Lender being herein called an “Increasing Lender”) up to the aggregate amount of the Non-Extending Lenders’ Commitments before substituting any New Lenders for Non-Extending Lenders.

(e) If and only if (i) more than 50% of the total of the Commitments is extended or otherwise committed to by Extending Lenders and any New Lenders, and (ii) immediately prior to the relevant Anniversary Date no Default has occurred and is continuing and the representations and warranties of the Company set forth in Section 3 shall be true and correct in all material respects on and as of such Anniversary Date as though made on and as of such date, and subject to each New Lender having executed a New Lender Supplement (on the effective date of which such New Lender shall become a Lender for all purposes and to the same extent as if originally a party hereto and shall be bound by and entitled to the benefits of this Agreement), then effective on such Anniversary Date the Commitment of each Extending Lender

shall be extended to the date 364 days after the Existing Revolving Credit Termination Date (or, if such day is not a Business Day, the immediately preceding Business Day) which date shall thereafter be the Revolving Credit Termination Date; the increased Commitment of each Increasing Lender and the new Commitment of each New Lender shall take effect on such Anniversary Date; the Commitments of the Non-Extending Lenders shall be reduced pro rata on such Anniversary Date to the extent of such increased and new commitments and appropriate adjustments shall be made on such Anniversary Date to cause any then-outstanding Loans of the Lenders to be held on a pro rata basis among all Lenders; the remaining Commitment of each Non-Extending Lender (including, if such Non-Extending Lender is a Swing Line Lender, such Lender's Swing Line Commitment) shall terminate on the Existing Revolving Credit Termination Date; and each applicable Borrower shall pay in full on the Existing Revolving Credit Termination Date all amounts payable to each Non-Extending Lender hereunder.

2.20 Replacement of Lenders. If any Lender requests compensation under Section 2.15, or if the Company is required to pay any additional amount to any Lender or any Governmental Authority for the account of any Lender pursuant to Section 2.16, or if any Lender is a Defaulting Lender or an Objecting Lender, or if any Lender is a Non-Extending Lender, or, so long as no Default or Event of Default has occurred and is continuing, a Lender does not consent to a proposed change, waiver, discharge or termination with respect to any Loan Document that has been approved by the Required Lenders as provided in Section 9.1 but requires the consent of all Lenders or all affected Lenders, then the Company may, at its sole expense and effort, upon notice to such Lender and the Managing Administrative Agent, require such Lender to assign and delegate, without recourse (in accordance with and subject to the restrictions contained in, and consents required by, Section 9.6), all of its interests, rights and obligations under this Agreement and the related Loan Documents to an assignee that shall assume such obligations (which assignee may be another Lender, if a Lender accepts such assignment) and consents to such change, waiver, discharge or termination, as the case may be, provided that:

(i) the Managing Administrative Agent shall have received the assignment fee specified in Section 9.6(e);

(ii) such Lender shall have received payment of an amount equal to the outstanding principal of its Loans and accrued interest thereon, accrued fees and all other amounts payable to it hereunder and under the other Loan Documents (including any amounts under Section 2.17) from the assignee (to the extent of such outstanding principal and accrued interest and fees) or the Company (in the case of all other amounts);

(iii) in the case of any such assignment resulting from a claim for compensation under Section 2.15 or payments required to be made pursuant to Section 2.16, such assignment will result in a reduction in such compensation or payments thereafter; and

(iv) such assignment does not conflict with applicable law.

A Lender shall not be required to make any such assignment or delegation if, prior thereto, as a result of a waiver by such Lender or otherwise, the circumstances entitling the Company to require such assignment and delegation cease to apply.

2.21 Defaulting Lenders. If a Lender becomes, and during the period it remains, a Defaulting Lender, the following provisions shall apply:

- (a) the facility fees set forth in Section 2.3 shall cease to accrue on the unutilized Commitment of such Defaulting Lender as provided in said Section 2.3;
- (b) to the extent permitted by applicable law, any prepayment of Loans shall, if the Company so directs at the time of the making of such prepayment, be applied to the Loans of other Lenders as if such Defaulting Lender had no Loans outstanding;
- (c) if any Swing Line Loan is outstanding at the time a Lender becomes a Defaulting Lender then:
  - (i) the Swing Line Exposure of such Defaulting Lender will, subject to the limitation in the first proviso below, automatically be reallocated (effective on the day such Lender becomes a Defaulting Lender) among the Non-Defaulting Lenders pro rata in accordance with their respective Commitments (without giving effect to such Defaulting Lender's Commitment); provided that (i) the sum of the total outstanding principal amounts of each Non-Defaulting Lender's Revolving Credit Loans and its Swing Line Exposure (including, as applicable, in its capacity as Swing Line Lender) may not in any event exceed the Commitment of such Non-Defaulting Lender as in effect at the time of such reallocation and (ii) subject to Section 9.21, neither such reallocation nor any payment by a Non-Defaulting Lender pursuant thereto will constitute a waiver or release of any claim any Borrower, the Managing Administrative Agent, any Swing Line Lender or any other Lender may have against such Defaulting Lender or cause such Defaulting Lender to be a Non-Defaulting Lender; and
  - (ii) to the extent that any portion (the "unreallocated portion") of the Defaulting Lender's Swing Line Exposure cannot be so reallocated, whether by reason of the proviso in clause (a) above or otherwise, the Company will, not later than five Business Days after demand by the Managing Administrative Agent (at the direction of the Swing Line Lenders) either, at its option, (A) prepay (subject to clause (d) below) in full the unreallocated portion thereof or (B) cash collateralize such Defaulting Lender's Swing Line Exposure (after giving effect to any partial reallocation pursuant to clause (i) above) in accordance with procedures reasonably acceptable to the Managing Administrative Agent and the Swing Line Lenders for so long as such Swing Line Exposure is outstanding, such prepayment and cash collateralization to be applied ratably to the outstanding Swing Line Loans of all of the Swing Line Lenders (and, until such prepayment and cash collateralization shall occur, the facility fees that would otherwise have been payable to such Defaulting Lender but for the last sentence of Section 2.3 and Section 2.21(a) shall instead be paid ratably to the Swing Line Lenders).
- (d) any amount paid by any Borrower for the account of a Defaulting Lender under this Agreement (whether on account of principal, interest, fees, indemnity payments or other amounts) will not be paid or distributed to such Defaulting Lender, but will instead be retained by the Managing Administrative Agent in a segregated non-interest bearing account until (subject to Section 2.22) the termination of the Commitments and payment in full of all obligations of the Borrowers hereunder and will be applied by the Managing Administrative Agent, to the fullest extent permitted by law, to the making of payments from time to time in the

following order of priority: first to the payment of any amounts owing by such Defaulting Lender to the Managing Administrative Agent under this Agreement, second to the payment of any amounts owing by such Defaulting Lender to the Swing Line Lenders (pro rata as to the respective amounts owing to each of them) under this Agreement, third if so determined by the Managing Administrative Agent or requested by a Swing Line Lender, held in such account as cash collateral for future funding obligations of the Defaulting Lender in respect of any existing or future participating interest in any Swing Line Loan, fourth, to the funding of any Loan in respect of which such Defaulting Lender has failed to fund its portion thereof as required by this Agreement, as determined by the Managing Administrative Agent, fifth, if so determined by the Managing Administrative Agent and the Company, held in such account as cash collateral for future funding obligations of the Defaulting Lender in respect of any Loans under this Agreement, and sixth after the termination of the Commitments and payment in full of all obligations of the Borrowers hereunder, to pay amounts owing under this Agreement to such Defaulting Lender or as a court of competent jurisdiction may otherwise direct.

(e) so long as any Lender is a Defaulting Lender, no Swing Line Lender shall be required to fund any Swing Line Loan unless it is satisfied that the related exposure of the Defaulting Lender will be 100% covered by the Commitments of the Non-Defaulting Lenders and/or cash collateral will be provided by the Company in accordance with paragraph (c)(ii) of this Section, and participating interests in any such newly made Swing Line Loan shall be allocated among non-Defaulting Lenders in a manner consistent with paragraph (c)(i) and (c)(ii) of this Section.

(f) the Company may (a) terminate the unused amount of the Commitment of a Defaulting Lender upon not less than one (1) Business Day's prior notice to the Managing Administrative Agent (which will promptly notify the Lenders hereof), and in such event the provisions of this Section will apply to all amounts thereafter paid by any Borrower for the account of such Defaulting Lender under this Agreement (whether on account of principal, interest, fees, indemnity or other amounts); provided that such termination will not be deemed to be a waiver or release of any claim any Borrower, the Managing Administrative Agent, any Swing Line Lender or any Lender may have against such Defaulting Lender.

2.22 Defaulting Lender Cure. If the Company, the Managing Administrative Agent and the Swing Line Lenders agree in writing in their discretion that a Lender that is a Defaulting Lender should no longer be deemed to be a Defaulting Lender, the Managing Administrative Agent will so notify the parties hereto, whereupon as of the effective date specified in such notice and subject to any conditions set forth therein (which may include arrangements with respect to any amounts then held in the segregated account referred to in Section 2.21(c)), such Lender will, to the extent applicable, purchase at par such portion of outstanding Loans of the other Lenders and/or make such other adjustments as the Managing Administrative Agent may determine to be necessary to cause the total outstanding principal amounts of Revolving Credit Loans and the Swing Line Loans of the Lenders to be on a pro rata basis in accordance with their respective Commitments, whereupon such Lender will cease to be a Defaulting Lender and will be a Non-Defaulting Lender (and such outstanding principal amount of the Revolving Credit Loans of each Lender and the Swing Line Loans will automatically be adjusted on a prospective basis to reflect the foregoing); provided that no adjustments will be made retroactively with respect to fees accrued or payments made by or on behalf of any Borrower while such Lender



was a Defaulting Lender; and provided, further, that except to the extent otherwise expressly agreed by the affected parties, no change hereunder from Defaulting Lender to Non-Defaulting Lender will constitute a waiver or release of any claim of any party hereunder arising from such Lender's having been a Defaulting Lender.

## 2.23 Designation of Subsidiary Borrowers.

(a) Designation of Subsidiary Borrowers. Subject to the terms and conditions of this Section 2.23, the Company may, at any time and from time to time upon not less than 15 Business Days' notice (a "Notice of Proposed Subsidiary Borrower Designation") to the Managing Administrative Agent (or such shorter period which is reasonably acceptable to the Managing Administrative Agent), request that a Subsidiary specified in such notice become a party to this Agreement as a Borrower. Each Notice of Proposed Subsidiary Borrower Designation shall specify the name of such Subsidiary and its jurisdiction of organization, the proposed effective date of such designation and such other information relating thereto reasonably requested by the Managing Administrative Agent. The Managing Administrative Agent shall upon receipt of a Notice of Proposed Subsidiary Borrower Designation from the Company promptly notify each Lender thereof. Upon the satisfaction of the conditions specified in paragraph (b) of this Section 2.23 (but subject to the paragraph (d) of this Section 2.23), such Subsidiary shall become a party to this Agreement as a Borrower hereunder and shall be entitled to borrow Revolving Credit Loans on and subject to the terms and conditions of this Agreement, and the Managing Administrative Agent shall promptly notify the Lenders of such designation. If the designation of such Subsidiary Borrower obligates the Managing Administrative Agent or any Lender to comply with "know your customer" or other similar checks and identification requirements and procedures under any applicable laws, rules and regulations with respect to such Subsidiary Borrower in circumstances where the necessary information is not already available to it, the Company shall (or shall cause such Subsidiary Borrower to), promptly upon the request of the Managing Administrative Agent or any Lender (through the Managing Administrative Agent), supply such documentation and other evidence as is reasonably requested by the Managing Administrative Agent or any Lender in order for the Managing Administrative Agent or such Lender to comply therewith (but which in no event shall be more onerous, taken as a whole, than the equivalent documents delivered by the Company on the date hereof).

(b) Conditions Precedent to Designation Effectiveness. The designation by the Company of any Subsidiary as a Borrower hereunder shall become effective on the date on which the Managing Administrative Agent shall have received each of the following documents (each of which shall be reasonably satisfactory to the Managing Administrative Agent in form and substance, but which in to event shall be more onerous, taken as a whole, than the equivalent documents delivered by the Company on the date hereof), provided that the Managing Administrative Agent shall not have received a Lender Objection Notice pursuant to this Section that has not been withdrawn by the relevant Lender:

(i) Subsidiary Borrower Designation. A Subsidiary Borrower Designation, duly completed and executed by the Company and the relevant Subsidiary, delivered to the Managing Administrative Agent;

(ii) Opinion of Counsel. If requested by the Managing Administrative Agent, a favorable written opinion of external counsel to such Subsidiary Borrower (such counsel to be reasonably satisfactory to the Managing Administrative Agent), as to such matters as the Managing Administrative Agent may request, and the Company and such Subsidiary Borrower hereby instruct such counsel to deliver any such opinion;

(iii) Corporate Documents. Such documents and certificates as the Managing Administrative Agent may reasonably request (including certified copies of the organizational documents of such Subsidiary and of resolutions of its board of directors authorizing such Subsidiary becoming a Borrower hereunder, and of all documents evidencing all other necessary corporate or other action required with respect to such Subsidiary becoming party to this Agreement); and

(iv) Other Documents. Receipt of such other documents relating thereto as the Managing Administrative Agent or its counsel may reasonably request (including any information requested by the Managing Administrative Agent or any Lender pursuant to the last sentence of paragraph (a) of this Section 2.23).

(c) Termination of Subsidiary Borrowers. The Company may, at any time, terminate a Subsidiary Borrower as a Borrower hereunder by delivering to the Managing Administrative Agent a written notice thereof (each a “Subsidiary Borrower Termination Notice”), substantially in the form of Exhibit E-2 or any other form approved by the Managing Administrative Agent, such approval not to be unreasonably withheld or delayed. Any Subsidiary Borrower Termination Notice furnished hereunder shall be effective upon receipt thereof by the Managing Administrative Agent (which shall promptly so notify the Lenders), whereupon all commitments of the Lenders to make Revolving Credit Loans to such Subsidiary hereunder shall terminate and such Subsidiary shall cease to be a Borrower hereunder. If, at the time of any such termination, any Revolving Credit Loans or any other amounts hereunder or under any other Loan Documents are outstanding to the relevant Subsidiary, the Company shall assume all such obligations as primary obligations pursuant to an instrument in form and substance satisfactory to the Managing Administrative Agent, and upon such assumption, such Subsidiary shall be automatically released from such obligations without any further action by any party.

(d) Lender Objection. Any Lender may object to the designation or continuation of a Non-U.S. Subsidiary as a Subsidiary Borrower hereunder by notifying the Company and the Managing Administrative Agent thereof in writing (such Lender, an “Objecting Lender”, and such notice, a “Lender Objection Notice”) in the following circumstances:

(i) with respect to any designation of a Non-U.S. Subsidiary as a Subsidiary Borrower in a jurisdiction other than an Eligible Foreign Jurisdiction, if such Lender may not legally lend to, establish credit for the account of and/or do any business whatsoever with such Non-U.S. Subsidiary because of its jurisdiction of organization or whose internal policies preclude any such lending, establishing credit and/or doing business with respect to such Non-U.S. Subsidiary because of its jurisdiction of organization, and any Lender Objection Notice delivered as a result of the circumstances in this clause (i) shall be delivered as soon as

practicable (but in any event not more than five Business Days) following such Lender's receipt of a Notice of Proposed Subsidiary Borrower Designation with respect to such Non-U.S. Subsidiary, or

(ii) with respect to the designation or continuation of a Non-U.S. Subsidiary as a Subsidiary Borrower in any jurisdiction, if the adoption of or any change in any Requirement of Law or in the interpretation or application thereof or compliance by any Lender with any request or directive (whether or not having the force of law) from any central bank or other Governmental Authority made subsequent to the date hereof shall make it illegal for any Lender to lend to, establish credit for the account of and/or do any business whatsoever with a Non-U.S. Subsidiary organized in such jurisdiction;

provided that (x) any Lender which is relying solely on such internal policies as the basis for providing an such an objection pursuant to clause (i) above may provide a Lender Objection Notice only if such policies are being applied by such Lender to all similarly situated borrowers seeking loans or other extensions of credit from or with respect to doing business in such jurisdiction; (y) prior to the delivery of a Lender Objection Notice, each Lender that may be an Objecting Lender shall use reasonable efforts to designate (or identify) a different lending office for funding or booking its Loans to such Non-U.S. Subsidiary hereunder or to assign (or identify for purposes of assignment of) its rights and obligations hereunder to make its Revolving Credit Loans to such Non-U.S. Subsidiary hereunder to another of its offices, branches or affiliates, if, in the judgment of such Lender, such designation or assignment would eliminate the need for a Lender Objection Notice and, in the sole judgment of such Lender, would not otherwise be disadvantageous to such Lender and would not subject such Lender to any unreimbursed cost or expense; and (z) if, pursuant to clause (y) above, such Lender shall assign its rights and obligations hereunder to make its Revolving Credit Loans to such Non-U.S. Subsidiary hereunder to an Affiliate, such Lender shall, to the extent of Revolving Credit Loans made to such Non-U.S. Subsidiary Borrower, be deemed for all purposes hereof to have pro tanto assigned such Revolving Credit Loans to such Affiliate in compliance with the provisions of Section 9.6 (provided that, at the request of the Managing Administrative Agent, such Lender and such Affiliate shall deliver an Assignment and Acceptance with respect to such deemed assignment).

In the event that the Company and the Managing Administrative Agent receive a Lender Objection Notice with respect to any Non-U.S. Subsidiary that has not been withdrawn by the applicable Objecting Lender, then (A) in the case of a Lender Objection Notice delivered pursuant to clause (i) above, the Company may not deliver a Subsidiary Borrower Designation with respect to such Non-U.S. Subsidiary Borrower pursuant to paragraph (b) of this Section 2.23 (and any such Subsidiary Borrower Designation shall be ineffective) and (B) in the case of a Lender Objection Notice delivered pursuant to clause (ii) above, (1) all commitments of the Lenders to make Revolving Credit Loans to such Subsidiary hereunder shall terminate and such Non-U.S. Subsidiary shall cease to be a Subsidiary Borrower hereunder (and any request by such Non-U.S. Subsidiary to borrow or continue Revolving Credit Loans hereunder shall be ineffective), (2) if, at the time of any such termination, any Revolving Credit Loans or any other amounts hereunder or under any other Loan Documents are outstanding to such Non-U.S. Subsidiary, the Company be deemed to have automatically assumed all such obligations as primary obligations (and, if so requested by the Managing Administrative Agent, the Company

shall execute and deliver an instrument of assumption in form and substance satisfactory to the Managing Administrative Agent, whereupon such Subsidiary shall be released from such obligations without any further action by any party) and (3) the Managing Administrative Agent shall promptly notify the Lenders of the delivery of such Lender Designation Notice and such termination.

Subject to the requirements of this Section 2.23 (including the provisions of paragraph (a) hereof and this paragraph (d)), nothing herein shall preclude the Company from submitting thereafter another request for designation of such Non-U.S. Subsidiary as a Subsidiary Borrower hereunder.

(e) Notices. Each Subsidiary of the Company that is or becomes a “Subsidiary Borrower” pursuant to this Section 2.23 hereby irrevocably appoints the Company as its agent for all purposes relevant to this Agreement and each of the other Loan Documents, including (i) the giving and receipt of notices, (ii) the execution and delivery of all documents, instruments and certificates contemplated herein and all modifications hereto, and (iii) the receipt of the proceeds of any Loans made by the Lenders to any such Subsidiary Borrower hereunder. Any acknowledgment, consent, direction, certification or other action which might otherwise be valid or effective only if given or taken by all Borrowers, or by each Borrower acting singly, shall be valid and effective if given or taken only by the Company, whether or not any such other Borrower joins therein.

(f) Liability Several and Not Joint. The Subsidiary Borrowers shall be liable solely for the obligations under the Loan Documents directly incurred by such Subsidiary Borrower and shall not be responsible for the obligations of the Company under the Loan Documents.

### SECTION 3. REPRESENTATIONS AND WARRANTIES

To induce the Managing Administrative Agent and the Lenders to enter into this Agreement and to make the Loans, the Company hereby represents and warrants to the Managing Administrative Agent and each Lender, and, to the extent that any Non-U.S. Subsidiary Borrower is a party hereto, such Non-U.S. Subsidiary Borrower represents and warrants (solely as to itself and solely with respect to the representations set forth in Section 3.19) to the Managing Administrative Agent and each Lender that:

3.1 Financial Condition. The consolidated balance sheet of the Company and its consolidated Subsidiaries as at December 31, 2021 and the related consolidated statements of income and of cash flows for the fiscal year ended on such date, reported on by PricewaterhouseCoopers LLP copies of which have heretofore been furnished to each Lender, are complete and correct in all material respects and present fairly the consolidated financial condition of the Company and its consolidated Subsidiaries as at such date, and the consolidated results of their operations and their consolidated cash flows for the fiscal year then ended. All such financial statements have been prepared in accordance with GAAP applied consistently throughout the periods involved (except as approved by such accountants or Responsible Officer, as the case may be, and as disclosed therein).

3.2 No Change. Since December 31, 2021 there has been no development or event which has had or could reasonably be expected to have a Material Adverse Effect.

3.3 Existence; Compliance with Law. Each of the Company and its Subsidiaries (a) is an entity duly organized, validly existing and in good standing under the laws of the jurisdiction of its organization (provided that no representation is made under this clause (a) with respect to any Subsidiary of the Company (other than any Subsidiary Borrower) if the failure of such Subsidiary to be duly organized, validly existing or in good standing as aforesaid could not reasonably be expected to have a Material Adverse Effect), (b) has the power and authority, and the legal right, to own and operate its property, to lease the property it operates as lessee and to conduct the business in which it is currently engaged, (c) is duly qualified as a foreign entity and in good standing under the laws of each jurisdiction (other than that of its organization) where its ownership, lease or operation of property or the conduct of its business requires such qualification and (d) is in compliance with all Requirements of Law, except in the case of clause (b), (c) or (d) above, to the extent that the failure to have such power, authority and legal right, to qualify as a foreign entity or to be in good standing or to comply with any Requirement of Law could not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

3.4 Corporate Power; Authorization; Enforceable Obligations. The Company and each Subsidiary Borrower has the corporate power and authority, and the legal right, to make, deliver, and perform the Loan Documents and to borrow hereunder and has taken all necessary corporate action to authorize the borrowings on the terms and conditions of this Agreement and any Notes and to authorize the execution, delivery and performance of the Loan Documents. No consent or authorization of, filing with, notice to or other act by or in respect of, any Governmental Authority or any other Person is required in connection with the borrowings hereunder or with the execution, delivery, performance, validity or enforceability of the Loan Documents except consents, authorizations, filings or notices that if not obtained or made, could not reasonably be expected to have a Material Adverse Effect. This Agreement has been, and each other Loan Document will be, duly executed and delivered on behalf of the Company and each Subsidiary Borrower. This Agreement constitutes, and each other Loan Document when executed and delivered will constitute, a legal, valid and binding obligation of the Company and each Subsidiary Borrower enforceable against the Company and each Subsidiary Borrower in accordance with its terms, subject to the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other similar laws relating to or affecting creditors' rights generally, general equitable principles (whether considered in a proceeding in equity or at law) and an implied covenant of good faith and fair dealing.

3.5 No Legal Bar. The execution, delivery and performance of the Loan Documents to which the Company and each Subsidiary Borrower is a party, the borrowings hereunder and the use of the proceeds thereof will not violate any Requirement of Law or Contractual Obligation of the Company or any Subsidiary Borrower and will not result in, or require, the creation or imposition of any Lien on any of its or their respective properties or revenues pursuant to any such Requirement of Law or Contractual Obligation, except to the extent that such violation or imposition of Liens could not reasonably be expected to have a Material Adverse Effect.

3.6 No Material Litigation. Except as listed on Schedule 3.6 or as disclosed in any public filing made by the Company prior to the date hereof, no litigation, investigation or proceeding of or before any arbitrator or Governmental Authority is pending or, to the knowledge of the Company, threatened by or against the Company or any of its Subsidiaries or against any of its or their respective properties or revenues (a) with respect to any of the Loan Documents or any of the transactions contemplated hereby or thereby, or (b) which could, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

3.7 No Default. Neither the Company nor any of its Subsidiaries is in default under or with respect to any of its Contractual Obligations in any respect which could, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect. No Default or Event of Default has occurred and is continuing.

3.8 Ownership of Property; Liens. Each of the Company and its Subsidiaries has good record and marketable title in fee simple to, or a valid leasehold interest in, all its real property material to the business of the Company and its Subsidiaries, taken as a whole, and good title to, or a valid leasehold interest in, all its other property material to the business of the Company and its Subsidiaries, taken as a whole, and none of such property is subject to any Lien except as permitted by Section 6.2, except in any such case to the extent that it could not reasonably be expected to have a Material Adverse Effect.

3.9 Intellectual Property. The Company and each of its Subsidiaries owns, or is licensed to use, all trademarks, tradenames, copyrights, technology, know-how and processes necessary for the conduct of its business as currently conducted except for those the failure to own or license which could not reasonably be expected to have a Material Adverse Effect (the “Intellectual Property”). No claim has been asserted and is pending by any Person challenging or questioning the use of any such Intellectual Property or the validity or effectiveness of any such Intellectual Property, nor does the Company know of any valid basis for any such claim, except for such claims that, in the aggregate, could not reasonably be expected to have a Material Adverse Effect. The use of such Intellectual Property by the Company and its Subsidiaries does not infringe on the rights of any Person, except for such claims and infringements that, in the aggregate, could not reasonably be expected to have a Material Adverse Effect.

3.10 No Burdensome Restrictions. No Requirement of Law or Contractual Obligation of the Company or any of its Subsidiaries could reasonably be expected to have a Material Adverse Effect.

3.11 Taxes. Each of the Company and its Subsidiaries has filed or caused to be filed all tax returns which, to the knowledge of the Company, are required to be filed and has paid all taxes shown to be due and payable on said returns or on any assessments made against it or any of its property and all other taxes, fees or other charges imposed on it or any of its property by any Governmental Authority, except (a) the amount or validity of which are currently being contested in good faith by appropriate proceedings and with respect to which reserves in conformity with GAAP have been provided on the books of the Company or its Subsidiaries, as the case may be or (b) to the extent that the failure to do so could not reasonably be expected to have a Material Adverse Effect; no tax Lien has been filed, and, to the knowledge of the Company, no claim is being asserted, with respect to any such tax, fee or other charge other than

any Lien permitted under Section 6.2(a) or any Lien that could not reasonably be expected to have a Material Adverse Effect.

3.12 Federal Margin Regulations. Neither the Company nor any of its Subsidiaries is engaged principally, or as one of its important activities, in the business of extending credit for the purpose (whether immediate, incidental or ultimate) of buying or carrying Margin Stock. No part of the proceeds of any Loans will be used directly or indirectly for the purpose (whether immediate, incidental or ultimate) of buying or carrying Margin Stock in violation of the regulations of the Board. If requested by any Lender or the Managing Administrative Agent, the Company will furnish to each Lender and the Managing Administrative Agent a statement in conformity with the requirements of Federal Reserve Form FR U-1 or FR G-3, as appropriate, referred to in Regulation U, to demonstrate the compliance of any borrowing hereunder with Regulation U.

3.13 ERISA. Neither a Reportable Event nor a failure to satisfy the “minimum funding standard” (within the meaning of Section 412 of the Code or Section 302 of ERISA) has occurred during the five-year period prior to the date on which this representation is made or deemed made with respect to any Single Employer Plan that could reasonably be expected to have a Material Adverse Effect, and each Plan has complied with the applicable provisions of ERISA and the Code, except to the extent that the failure to comply could not reasonably be expected to have a Material Adverse Effect. No termination of a Single Employer Plan has occurred (other than via a “standard termination” as defined in Section 4041(b) of ERISA), and no Lien in favor of the PBGC or a Single Employer Plan has arisen, during such five-year period that could reasonably be expected to have a Material Adverse Effect. The excess, if any, of the present value of all accrued benefits under each Single Employer Plan (based on those assumptions used to fund such Single Employer Plans), as of the last annual valuation date prior to the date on which this representation is made or deemed made, over the value of the assets of such Single Employer Plan allocable to such accrued benefits could not reasonably be expected to have a Material Adverse Effect. Neither the Company nor any Commonly Controlled Entity has had a complete or partial withdrawal from any Multiemployer Plan that could reasonably be expected to have a Material Adverse Effect, and neither the Company nor any Commonly Controlled Entity would become subject to any liability under ERISA that could reasonably be expected to have a Material Adverse Effect if the Company or any such Commonly Controlled Entity were to withdraw completely from all Multiemployer Plans as of the valuation date most closely preceding the date on which this representation is made or deemed made. To the best knowledge of the Company, no such Multiemployer Plan is in Insolvency that could reasonably be expected to have a Material Adverse Effect. The excess, if any, of the present value (determined using actuarial and other assumptions which are reasonable in respect of the benefits provided and the employees participating) of the liability of the Company for post retirement benefits to be provided to their current and former employees under Plans which are welfare benefit plans (as defined in Section 3(l) of ERISA) over the assets under all such Plans allocable to such benefits could not reasonably be expected to have a Material Adverse Effect.

3.14 Investment Company Act; Other Regulations. Neither the Company nor any Subsidiary Borrower is an “investment company”, or a company “controlled” by an “investment company”, within the meaning of the Investment Company Act of 1940, as amended. Neither the Company nor any Subsidiary Borrower is subject to regulation under any Federal or State

statute or regulation (other than Regulation X of the Board) which limits its ability to incur Indebtedness.

3.15 Material Subsidiaries. As of the Fourth Restatement Effective Date, Schedule 3.15 lists each Material Subsidiary of the Company (and the direct and indirect ownership interest of the Company therein), in each case existing on September 30, 2022.

3.16 Purpose of Loans. The proceeds of the Loans shall be used by the Company and its Subsidiaries solely for general corporate purposes of the Company and its Subsidiaries.

3.17 Environmental Matters. Except to the extent any of the following could not reasonably be expected to have a Material Adverse Effect:

(a) To the best knowledge of the Company, the facilities and properties owned, leased or operated by the Company or any of its Subsidiaries (the “Properties”) do not contain, and have not previously contained, any Materials of Environmental Concern in amounts or concentrations which (i) constitute or constituted a violation of, or (ii) could reasonably be expected to give rise to liability under, any Environmental Law.

(b) The Properties and all operations at the Properties are in compliance in all material respects with all applicable Environmental Laws, and there is no contamination at, under or about the Properties or violation of any Environmental Law with respect to the Properties or the business operated by the Company or any of its Subsidiaries (the “Business”) which could materially interfere with the continued operation of the Properties or materially impair the fair saleable value thereof.

(c) Neither the Company nor any of its Subsidiaries has received any notice of violation, alleged violation, non-compliance, liability or potential liability regarding environmental matters or compliance with Environmental Laws with regard to any of the Properties or the Business, nor does the Company have knowledge or reason to believe that any such notice will be received or is being threatened.

(d) No judicial proceeding or governmental or administrative action is pending or, to the knowledge of the Company, threatened, under any Environmental Law to which the Company or any Subsidiary is or, to the knowledge of the Company, will be named as a party with respect to the Properties or the Business, nor are there any consent decrees or other decrees, consent orders, administrative orders or other orders, or other administrative or judicial requirements outstanding under any Environmental Law with respect to the Properties or the Business to which the Company or any Subsidiary is subject.

3.18 Anti-Corruption Laws and Sanctions. The Company has implemented and maintains in effect policies and procedures reasonably designed to ensure compliance by the Company, its Subsidiaries and their respective directors, officers, employees and agents with Anti-Corruption Laws and applicable Sanctions, and the Company, its Subsidiaries and their respective officers and directors and, to the knowledge of the Company, its employees, affiliates and agents are in compliance with Anti-Corruption Laws and applicable Sanctions in all material respects. None of (a) the Company, any Subsidiary or any of their respective directors or



officers, or (b) to the knowledge of the Company, any employee, affiliate or agent of the Company or any Subsidiary that will act in any capacity in connection with or benefit from the credit facility established hereby, is a Sanctioned Person. No borrowing, use of proceeds or other transaction contemplated by this Agreement will violate Anti-Corruption Laws or applicable Sanctions.

3.19 Representations and Warranties of Non-U.S. Subsidiary Borrowers. Each Non-U.S. Subsidiary Borrower severally represents and warrants that:

(a) to ensure the validity, enforceability and admissibility in evidence of this Agreement against such Non-U.S. Subsidiary Borrower, it is not necessary that this Agreement or any other document be filed or recorded with any Governmental Authority other than such filings and recordations that have already been made; and (b) this Agreement is in proper legal form under the law of the Relevant Jurisdiction of such Subsidiary Borrower for the enforcement thereof against such Subsidiary Borrower, subject to the effects of bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and other similar laws relating to or affecting creditor's rights generally, general equitable principles (whether considered in a proceeding in equity or at law) and an implied covenant of good faith and fair dealing, and all formalities required in the Relevant Jurisdiction of such Subsidiary Borrower for the validity, enforceability and admissibility in evidence of this Agreement have been accomplished, and no notarization is required, for the validity, enforceability and admissibility in evidence thereof, except as has been obtained and is in full force and effect or unless not required to be made until the relevant document is sought to be enforced.

(b) this Agreement and the obligations evidenced hereby are and will at all times be direct and unconditional general obligations of such Subsidiary Borrower, and rank and will at all times rank in right of payment and otherwise at least pari passu with all other unsecured Indebtedness of such Subsidiary Borrower, whether now existing or hereafter outstanding. There exists no Lien (including any Lien arising out of any attachment, judgment or execution), nor any segregation or other preferential arrangement of any kind, on, in or with respect to any of the property or revenues of such Subsidiary Borrower or any of its Subsidiaries, except as expressly permitted by Section 6.2.

(c) such Subsidiary Borrower is subject to civil and commercial law with respect to its obligations under this Agreement. The execution, delivery and performance by such Subsidiary Borrower of this Agreement constitute private and commercial acts rather than public or government acts. Neither such Subsidiary Borrower, nor any of its properties or revenues, is entitled to any right of immunity in any jurisdiction from suit, court jurisdiction, judgment, attachment (whether before or after judgment), setoff or execution of a judgment or from any other legal process or remedy relating to the obligations of such Subsidiary Borrower under this Agreement.

3.20 Beneficial Ownership Certification. If applicable, as of the date hereof, the information included in any Beneficial Ownership Certification required to be provided is true and correct in all material respects.

#### SECTION 4. CONDITIONS PRECEDENT

4.1 Conditions to Initial Loan. The amendment and restatement of the Existing Credit Agreement and the agreement of each Lender to make the initial Loan requested to be made by it is subject to the satisfaction of the following conditions precedent (or until such conditions are waived pursuant to Section 9.1):

(a) Loan Documents. The Managing Administrative Agent shall have received (i) this Agreement, executed and delivered by a duly authorized officer of the Company and (ii) for the account of any Swing Line Lender that requested a Swing Line Note, such Swing Line Note, conforming to the requirements hereof and for the account of any Lender that requested a Revolving Credit Note, such Revolving Credit Note, conforming to the requirements hereof, each executed by a duly authorized officer of the Company.

(b) Closing Certificate. The Managing Administrative Agent shall have received, with a copy for each Lender, a closing certificate of the Company, dated the Fourth Restatement Effective Date, substantially in the form of Exhibit C, with appropriate insertions and attachments, satisfactory in form and substance to the Managing Administrative Agent, executed by the President or his designee or any Vice President or Treasurer or Assistant Treasurer and the Secretary or any Assistant Secretary of the Company.

(c) Corporate Proceedings. The Managing Administrative Agent shall have received a copy of the resolutions, in form and substance reasonably satisfactory to the Managing Administrative Agent, of the Board of Directors of the Company authorizing (i) the execution, delivery and performance by the Company of this Agreement and the other Loan Documents and (ii) the making of the borrowings and the uses of the proceeds contemplated hereunder certified by its Secretary or an Assistant Secretary as of the Fourth Restatement Effective Date, which certificate shall be in form and substance satisfactory to the Managing Administrative Agent and shall state that the resolutions thereby certified have not been amended, modified, revoked or rescinded.

(d) Incumbency Certificate. The Managing Administrative Agent shall have received a certificate of the Company, dated the Fourth Restatement Effective Date, as to the incumbency and signature of its officers executing any Loan Document, satisfactory in form and substance to the Managing Administrative Agent, executed by its President or any Vice President and its Secretary or any Assistant Secretary.

(e) Corporate Documents. The Managing Administrative Agent shall have received true and complete copies of the certificate of incorporation and by-laws of the Company, certified as of the Fourth Restatement Effective Date as complete and correct copies thereof by the Secretary or an Assistant Secretary of the Company.

(f) Fees. The Managing Administrative Agent shall have received the fees to be received on the Fourth Restatement Effective Date.

(g) Legal Opinions. The Managing Administrative Agent shall have received (i) the executed legal opinion of Richard Verma, General Counsel of the Company, substantially

in the form of Exhibit F-1, and (ii) the executed legal opinion of Milbank LLP, special New York counsel to the Managing Administrative Agent, substantially in the form of Exhibit F-2, each dated the Fourth Restatement Effective Date and covering such other matters incident to the transactions contemplated by this Agreement as the Managing Administrative Agent may reasonably require.

(h) Existing Credit Agreement. Any outstanding principal, accrued interest, accrued facility fees and other amounts owing under the Existing Credit Agreement shall have been paid in full as of the Fourth Restatement Effective Date (it being understood and agreed, for the avoidance of doubt, that the Borrower may satisfy such prepayment with a concurrent borrowing hereunder). The Existing Lenders hereby waive any requirement to deliver prior notice of any prepayment or termination of existing commitments under the Existing Credit Agreement.

(i) Beneficial Ownership Certification. Each Lender that has reasonably requested a certification regarding beneficial ownership in relation to the Company and each Subsidiary Borrower, in each case, as required by the Beneficial Ownership Regulation (a “Beneficial Ownership Certification”) shall have received such Beneficial Ownership Certification; provided, for the avoidance of doubt, a Beneficial Ownership Certification shall not be required for an entity that is not a Legal Entity Customer.

(j) Other. The Managing Administrative Agent shall have received such other documents in connection with this Agreement as the Managing Administrative Agent may reasonably request.

4.2 Conditions to Each Loan. The agreement of each Lender to make any Loan requested to be made by it on any date (including, without limitation, its initial Loan, but except as otherwise provided in Section 2.13(c)) is subject to the satisfaction of the following conditions precedent:

(a) Representations and Warranties. Each of the representations and warranties made by the Company and (if such borrowing is being made by a Subsidiary Borrower) such Subsidiary Borrower (to the extent applicable under Section 3) pursuant to Section 3 of this Agreement (excluding the representations and warranties made by the Company in Sections 3.2 and 3.6) shall be true and correct in all material respects (except that such representations and warranties that are qualified as to materiality, “Material Adverse Effect” or similar language shall be true and correct in all respects) on and as of such date as if made on and as of such date (immediately before and immediately after giving effect to such Loan and to the application of the proceeds therefrom) except for representations and warranties expressly stated to relate to a specific earlier date, in which case such representations and warranties were true and correct as of such earlier date.

(b) No Default. No Default or Event of Default shall have occurred and be continuing on such date or after giving effect to the Loans requested to be made on such date.

Each borrowing by any Borrower hereunder shall constitute a representation and warranty by the Company as of the date thereof that the conditions contained in this Section have been satisfied.

## SECTION 5. AFFIRMATIVE COVENANTS

The Company hereby agrees that, so long as the Commitments remain in effect or any amount is owing to any Lender or the Managing Administrative Agent hereunder or under any other Loan Document (other than contingent indemnification and expense reimbursement obligations not due and payable), the Company shall and (except in the case of delivery of financial information, reports and notices) shall cause each of its Subsidiaries to:

### 5.1 Financial Statements. Furnish to each Lender:

(a) as soon as available, but in any event within 120 days after the end of each fiscal year of the Company, a copy of the consolidated balance sheet of the Company and its consolidated Subsidiaries as at the end of such year and the related consolidated statements of income and retained earnings and of cash flows for such year, setting forth in each case in comparative form the figures for the previous year, reported on without a “going concern” or like qualification or exception, or qualification arising out of the scope of the audit, by PricewaterhouseCoopers LLP or other independent certified public accountants of nationally recognized standing; and

(b) as soon as available, but in any event not later than 60 days after the end of each of the first three quarterly periods of each fiscal year of the Company, the unaudited consolidated balance sheet of the Company and its consolidated Subsidiaries as at the end of such quarter and the related unaudited consolidated statements of income and retained earnings of such quarter and of cash flows of the Company and its consolidated Subsidiaries for the portion of the fiscal year through the end of such quarter, setting forth in each case in comparative form the figures for the previous year or, in the case of such consolidated balance sheet, for the last day of the prior fiscal year, certified by a Responsible Officer as being fairly stated in all material respects (subject to normal year-end audit adjustments);

all such financial statements shall be complete and correct in all material respects and shall be prepared in reasonable detail and in accordance with GAAP applied consistently throughout the periods reflected therein and with prior periods (except as approved by such accountants or officer, as the case may be, and disclosed therein). Information required to be delivered pursuant to this Section 5.1 shall be deemed to have been delivered to the Lenders on the date on which the Company provides written notice to the Managing Administrative Agent that such information has been posted on the Company’s website on the Internet at <http://www.mastercard.com> or in an internet or intranet website to which each Lender has access or is available on the website of the Securities and Exchange Commission or any successor at <http://www.sec.gov> (to the extent such information has been posted or is available as described in such notice).

### 5.2 Certificates; Other Information. Furnish to the Managing Administrative Agent:

(a) [Reserved];

(b) within five days after the same are filed, copies of all financial statements and reports which the Company files with the Securities and Exchange Commission or any

successor Governmental Authority; provided that any such financial statement or report shall be deemed to have been delivered on the date that the Company notifies the Managing Administrative Agent that such financial statement or report is available on “EDGAR”, the Electronic Data Gathering, Analysis and Retrieval system of the Securities and Exchange Commission, or at <http://www.sec.gov/edgar.shtml> or at another relevant website identified to the Lenders and accessible to such Lenders;

(c) promptly, such additional financial and other information (including, for the avoidance of doubt, information related to the Beneficial Ownership Regulation) (other than any non-public information (except to the extent such non-public information is reasonably required to comply with ongoing obligations under applicable Anti-Corruption Laws) or materials pertaining to the Company’s proprietary new products, systems or services, proprietary marketing programs, strategies or plans, or any member specific billing, contractual or other arrangements) as the Managing Administrative Agent or any Lender through the Managing Administrative Agent may from time to time reasonably request.

Notwithstanding the foregoing, the Company will not be required to provide any information to the extent that the provision thereof would violate or constitute a waiver of any attorney-client privilege or violate any law, rule or regulation, or any obligation of confidentiality binding the Company or any of its Affiliates; provided that the Company shall (i) provide prompt notice to the Managing Administrative Agent that it intends to withhold such information on the basis that providing such information would violate or constitute a waiver of attorney-client privilege or violate a law, rule or regulation, or an obligation of confidentiality binding the Company or any of its Affiliates and (ii) use commercially reasonable efforts to communicate to the Managing Administrative Agent, to the extent permitted, the applicable information in a way that would not violate such restrictions.

5.3 Payment of Obligations. Pay, discharge or otherwise satisfy at or before maturity or before they become delinquent, as the case may be, all its obligations of whatever nature, except (i) where the amount or validity thereof is currently being contested in good faith by appropriate proceedings and reserves in conformity with GAAP with respect thereto have been provided on the books of the Company or its Subsidiaries, as the case may be or (ii) to the extent that failure to comply therewith could not, in the aggregate, be reasonably expected to have a Material Adverse Effect.

5.4 Conduct of Business and Maintenance of Existence. (a) Continue to engage in business of the same general type as now conducted by it; (b) preserve, renew and keep in full force and effect its existence and take all reasonable action to maintain all rights, privileges and franchises necessary or desirable in the normal conduct of its business except as otherwise permitted pursuant to Section 6.3 unless the failure to do so could not reasonably be expected to have a Material Adverse Effect; and (c) comply with all Contractual Obligations and Requirements of Law except to the extent that failure to comply therewith could not, in the aggregate, be reasonably expected to have a Material Adverse Effect.

5.5 Maintenance of Property; Insurance. Keep all property material to the business of the Company and its Subsidiaries taken as a whole in good working order and condition ordinary wear and tear excepted; maintain with financially sound and reputable insurance companies or

through a self-insurance program deemed reasonable by the Company insurance on all its property in at least such amounts and against at least such risks as are, to the Company's knowledge, usually insured against in the same general area by companies engaged in the same or a similar business.

5.6 Inspection of Property; Books and Records; Discussions. Keep proper books of records and account in which full, true and correct entries in conformity with GAAP (or such other commonly accepted accounting practice which has been previously disclosed to the Managing Administrative Agent) shall be made of all dealings and transactions in relation to its business and activities; and permit representatives of any Lender (coordinated through the Managing Administrative Agent) to visit and inspect any of its properties and examine and make abstracts from any of its books and records (other than any non-public information or materials pertaining to (i) its proprietary new products, systems or services, (ii) its proprietary marketing programs, strategies or plans, or (iii) any member specific billing, contractual or other arrangements) and to discuss the business, operations, properties and financial and other condition of the Company and its Subsidiaries with officers and employees of the Company and its Subsidiaries and with its independent certified public accountants, in each case during regular business hours upon reasonable advance notice and at any reasonable time but not more than once per fiscal year; provided that if a Default or Event of Default shall have occurred and be continuing, such visits and inspections (coordinated through the Managing Administrative Agent) may be conducted at any time upon reasonable notice.

5.7 Notices. Promptly give notice to the Managing Administrative Agent for distribution to the Lenders of:

(a) the occurrence of any Default or Event of Default;

(b) if the Company ceases to be a public reporting company under the Securities Exchange Act of 1934, as amended, any (i) default or event of default under any Contractual Obligation of the Company or any of its Subsidiaries or (ii) litigation, investigation or proceeding which may exist at any time between the Company or any of its Subsidiaries and any Governmental Authority, which in either case, could reasonably be expected to have a Material Adverse Effect;

(c) if the Company ceases to be a public reporting company under the Securities Exchange Act of 1934, as amended, any litigation or proceeding affecting the Company or any of its Subsidiaries as to which the Company determines that there is a reasonable probability of an adverse judgment and in which the amount involved is \$50,000,000 or more and not covered by insurance or in which injunctive or similar relief is sought;

(d) the following events, as soon as possible and in any event within 30 days after the Company knows or has reason to know thereof: (i) the occurrence of any Reportable Event with respect to any Single Employer Plan, a failure to make any required contribution to any Single Employer Plan, the creation of any Lien in favor of the PBGC or a Single Employer Plan, in each case that could reasonably be expected to result in a liability or Lien in excess of \$10,000,000 or (ii) the institution of proceedings or the taking of any other action by the PBGC or the Company or any Commonly Controlled Entity or any Multiemployer Plan with respect to

the withdrawal of the Company or any Commonly Controlled Entity from, or the terminating or Insolvency of, any Multiemployer Plan, except where such withdrawal from or the termination or Insolvency of any Multiemployer Plan could not reasonably be expected to result in a liability in excess of \$10,000,000;

(e) any material adverse change in the business, operations, property or financial condition of the Company and its Subsidiaries taken as a whole; and

(f) any change in the current last day of the fiscal quarter or the fiscal year of the Company, prior to giving effect to any such change.

Each notice pursuant to this Section shall be accompanied by a statement of a Responsible Officer setting forth details of the occurrence referred to therein (other than under paragraph (f)) and stating what action the Company proposes to take with respect thereto. Notices and other communications to the Lenders required pursuant to paragraphs (b), (c), (d), (e) and (f) of this Section 5.7 may be delivered or furnished by electronic communications (including e-mail and Internet or intranet websites) pursuant to procedures approved by the Managing Administrative Agent.

5.8 Environmental Laws. (a) Comply with, and use reasonable efforts to ensure compliance by all tenants and subtenants, if any, with, all applicable Environmental Laws and obtain and comply in all material respects with and maintain, and use reasonable efforts to ensure that all tenants and subtenants obtain and comply in all material respects with and maintain, any and all licenses, approvals, notifications, registrations or permits required by applicable Environmental Laws except to the extent that failure to do so could not be reasonably expected to have a Material Adverse Effect.

(b) Conduct and complete all investigations, studies, sampling and testing, and all remedial, removal and other actions required under Environmental Laws and promptly comply in all material respects with all lawful orders and directives of all Governmental Authorities regarding Environmental Laws except to the extent that the failure to do so could not reasonably be expected to have a Material Adverse Effect.

5.9 Compliance with Anti-Corruption Laws and Sanctions. Maintain in effect and enforce policies and procedures reasonably designed to ensure compliance by the Company, its Subsidiaries and their respective directors, officers, employees and agents with Anti-Corruption Laws and applicable Sanctions.

## SECTION 6. NEGATIVE COVENANTS

The Company hereby agrees that, so long as the Commitments remain in effect or any amount is owing to any Lender or the Managing Administrative Agent hereunder or under any other Loan Document (other than contingent indemnification and expense reimbursement obligations not due and payable), the Company shall not and shall not permit any of its Subsidiaries to, directly or indirectly:

6.1 [Reserved].

6.2 Limitation on Liens. Create, incur, assume or suffer to exist any Lien upon any of its property, assets or revenues, whether now owned or hereafter acquired, except for:

(a) Liens for taxes and other governmental charges not yet due or which are being contested in good faith by appropriate proceedings, provided that adequate reserves with respect thereto are maintained on the books of the Company or its Subsidiaries, as the case may be, in conformity with GAAP;

(b) carriers', warehousemen's, mechanics', materialmen's, repairmen's, landlord's or other like Liens arising in the ordinary course of business which are not overdue for a period of more than 60 days or which are being contested in good faith by appropriate proceedings;

(c) pledges, deposits or similar liens in connection with workers' compensation, unemployment insurance and other social security legislation or regulation and deposits securing liability to insurance carriers under insurance or self-insurance arrangements;

(d) (A) deposits to secure the performance of bids, trade contracts (other than for borrowed money), leases or subleases, statutory obligations, utilities, surety and appeal bonds, performance bonds and other obligations of a like nature incurred in the ordinary course of business and (B) deposits and Liens on financial assets in each case to secure swaps or other derivatives or other funding management transactions, entered into by the Company or any of its Subsidiaries to hedge against risks or for funding management purposes, in each case arising in the ordinary course of business and on commercially reasonable terms negotiated on an arms-length basis in connection with transactions not prohibited under this Agreement (and not entered into for speculative purposes);

(e) easements, rights-of-way, restrictions and other similar encumbrances which, in the aggregate, do not in any case materially detract from the value of the property subject thereto or materially interfere with the ordinary conduct of the business of the Company and its Subsidiaries taken as a whole;

(f) Liens in existence on the date hereof listed on Schedule 6.2(f), provided that no such Lien is spread to cover any additional property after the Fourth Restatement Effective Date and that the amount of Indebtedness secured thereby is not increased;

(g) Liens securing Indebtedness of the Company and its Subsidiaries incurred to finance the acquisition of fixed or capital assets (or any refinancing thereof that does not increase the amount of such Indebtedness outstanding at the time of such refinancing plus fees and expenses incurred in connection with such refinancing), provided that (i) such Liens shall be created at or not later than 180 days after the acquisition of such fixed or capital assets and (ii) such Liens do not at any time encumber any property other than the property financed by such Indebtedness;

(h) bankers' liens or other liens of financial institutions, in each case arising by operation of law in the ordinary course of business;



(i) Liens on the property or assets of a Person which becomes a Subsidiary on or after the date hereof securing Indebtedness of such Person or liens on any property or assets acquired after the Fourth Restatement Effective Date, provided that (i) such Liens existed at the time such Person became a Subsidiary or at the time of such acquisition, as the case may be (the “relevant time”), and were not created in anticipation thereof and (ii) any such Lien is not spread to cover any additional property or assets after the relevant time, other than proceeds of such property or assets to the extent such proceeds were covered by the grant of security in existence at the relevant time and such grant was not created in anticipation thereof;

(j) (A) Liens arising out of judgments or awards (x) which are stayed or bonded pending appeal or (y) with respect to which an appeal or a proceeding for review is being prosecuted in good faith and adequate reserves have been provided for the payment of such judgment or award and (B) Liens constituting escrow deposits or similar deposit arrangements (including, without limitation, a “Qualified Settlement Fund” within the meaning of Treasury Regulation §1.468B-1 and any analogous local, state, and/or foreign statute, law, regulation, or rule) with respect to the payment of settlements that are not yet final or that remain subject to appeal;

(k) Liens in favor of the Company which secure the obligation of any Subsidiary to the Company;

(l) Liens attaching to deposits in connection with any letter of intent, purchase agreement or similar agreement in connection with acquisitions;

(m) any interest or title of a lessor or lessee under any lease entered in the ordinary course of business and covering only the assets so leased, to the extent that the same would constitute a Lien;

(n) Liens (not otherwise permitted hereunder) which secure obligations not exceeding (as to the Company and all Subsidiaries) in aggregate an amount equal to the greater of: (x) \$600,000,000 and (y) 4.0% of consolidated total assets of the Company and its Subsidiaries as of the end of the fiscal quarter for which financial statements have been delivered pursuant to Section 5.1 most recently prior to the time the latest such Lien is incurred.

For purposes of determining compliance with this Section 6.2, the amount of obligations secured by Liens denominated in any currency other than Dollars shall be calculated based on customary currency exchange rates in effect on the latest date that obligations secured by such Liens were incurred.

6.3 Limitation on Fundamental Changes. Enter into any merger, consolidation or amalgamation, or liquidate, wind up or dissolve itself (or suffer any liquidation or dissolution), or convey, sell, lease, assign, transfer or otherwise dispose of, all or substantially all of its property, business or assets, except:

(a) if no Default or Event of Default shall have occurred and be continuing or would result therefrom, including without limitation under Section 7(i), the Company may be merged or consolidated with or into any other Person subject to the satisfaction of the following

conditions: (i) the Company shall be the continuing or surviving corporation or (ii) (x) the survivor shall be organized under the laws of a state in the United States and shall assume the Company's obligations under this Agreement and the other Loan Documents under an agreement in form and substance reasonably satisfactory to the Managing Administrative Agent, (y) at the request of any Lender, the survivor shall furnish to the Lenders all information necessary for them to comply with the Act (as defined in Section 9.19) and (z) if the Managing Administrative Agent so requests, it shall receive a legal opinion from outside counsel to the survivor reasonably satisfactory to the Managing Administrative Agent;

(b) if no Default or Event of Default shall have occurred and be continuing or would result therefrom, a Subsidiary Borrower may be merged or consolidated with or into any other Person subject to the satisfaction of the following conditions: (i) such Subsidiary Borrower shall be the continuing or surviving corporation or (ii) (x) the survivor shall be organized under the laws of the same jurisdiction as the jurisdiction of organization of such Subsidiary Borrower or under the laws of a state in the United States and shall assume such Subsidiary Borrower's obligations under this Agreement and the other Loan Documents under an agreement in form and substance reasonably satisfactory to the Managing Administrative Agent, (y) at the request of any Lender, the survivor shall furnish to the Lenders all information necessary for them to comply with the Act (as defined in Section 9.19) and (z) if the Managing Administrative Agent so requests, it shall receive a legal opinion from outside counsel to the survivor reasonably satisfactory to the Managing Administrative Agent;

(c) (i) any Subsidiary (other than a Subsidiary Borrower) may sell, lease, transfer or dispose of any or all of its assets (upon voluntary liquidation, winding up, dissolution or otherwise) to a wholly owned Subsidiary or the Company, and (ii) any Subsidiary Borrower may sell, lease or dispose of any or all of its assets (upon voluntary liquidation, winding up, dissolution or otherwise) to another Subsidiary Borrower or the Company; and

(d) as permitted by Section 6.4 (including by way of merger, voluntary liquidation, winding up, dissolution or otherwise).

6.4 [Reserved].

6.5 [Reserved].

6.6 Limitation on Violation of Anti-Corruption Laws and Sanctions. Request any borrowing, or use, or permit its Subsidiaries and its or their respective directors, officers, employees and agents to use the proceeds of any Loan (a) in furtherance of an offer, payment, promise to pay, or authorization of the payment or giving of money, or anything else of value, to any Person in violation of any Anti-Corruption Laws, (b) for the purpose of funding, financing or facilitating any activities, business or transaction of or with, or for the benefit of, any Sanctioned Person or in any Sanctioned Country, except to the extent permitted for a Person required to comply with Sanctions, or (c) in any manner that would result in the violation of any Sanctions by any party hereto.

## SECTION 7. EVENTS OF DEFAULT

If any of the following events shall occur and be continuing:

(a) Any Borrower shall fail to pay any principal of any Loan when due in accordance with the terms hereof; or any Borrower shall fail to pay any interest on any Loan, or any other amount payable hereunder (other than principal), within five days after any such interest or other amount becomes due in accordance with the terms hereof; or

(b) Any representation or warranty made or deemed made by the Company or (to the extent applicable) any Subsidiary Borrower herein or in any other Loan Document or which is contained in any certificate furnished by it at any time under or in connection with this Agreement shall prove to have been incorrect in any material respect (or, in the case of any such representation and warranty that is qualified as to materiality, in any respect) on or as of the date made or deemed made; or

(c) The Company shall default in the observance or performance of any agreement contained in Section 5.7(a) or Section 6; or

(d) the Company or any Subsidiary Borrower shall default in the observance or performance of any other term, covenant or agreement contained in this Agreement (other than as provided in paragraphs (a) through (c) of this Section), and such default shall continue unremedied for a period of 30 days after notice to the Company by the Managing Administrative Agent or the Required Lenders; or

(e) The Company or any of its Subsidiaries shall (i) default in any payment of principal of or interest on any Indebtedness (other than the Loans) in excess of \$300,000,000 in the aggregate, beyond the period of grace (not to exceed 30 days), if any, provided in the instrument or agreement under which such Indebtedness was created, or (ii) fail to observe or perform any other agreement or condition relating to any such Indebtedness or contained in any instrument or agreement evidencing, securing or relating thereto, or any other event shall occur or condition exist, the effect of which failure or other event or condition is to cause such Indebtedness to become due prior to its stated maturity, provided that this paragraph (e) shall not apply to Indebtedness that becomes due, or under which a default occurs, as a result of the voluntary sale or transfer of property or assets if such sale or transfer is permitted hereunder and such Indebtedness is paid by the relevant obligor; or

(f) (i) The Company or any of its Material Subsidiaries shall commence any case, proceeding or other action (A) under any existing or future law of any jurisdiction, domestic or foreign, relating to bankruptcy, insolvency, reorganization or relief of debtors, seeking to have an order for relief entered with respect to it, or seeking to adjudicate it as bankrupt or insolvent, or seeking reorganization, arrangement, adjustment, winding-up, liquidation, dissolution, composition or other relief with respect to it or its debts, or (B) seeking appointment of a receiver, trustee, custodian, conservator or other similar official for it or for all or any substantial part of its assets, or the Company or any of its Material Subsidiaries shall make a general assignment for the benefit of its creditors; or (ii) there shall be commenced against the Company or any of its Material Subsidiaries any case, proceeding or other action of a nature referred to in clause (i) above which (A) results in the entry of an order for relief or any such adjudication or appointment or (B) remains undismissed, undischarged or unbonded for a period of 90 days; or (iii) there shall be commenced against the Company or any of its Material Subsidiaries any case, proceeding or other action seeking issuance of a warrant of attachment,

execution, distraint or similar process against all or any substantial part of its assets which results in the entry of an order for any such relief which shall not have been vacated, discharged, or stayed or bonded pending appeal within 60 days from the entry thereof; or (iv) the Company or any of its Material Subsidiaries shall take any action in furtherance of, or indicating its consent to, approval of, or acquiescence in, any of the acts set forth in clause (i), (ii), or (iii) above; or (v) the Company or any of its Material Subsidiaries shall generally not, or shall be unable to, or shall admit in writing its inability to, pay its debts as they become due; or

(g) (i) The Company or any Commonly Controlled Entity shall engage in any “prohibited transaction” (as defined in Section 406 of ERISA or Section 4975 of the Code) involving any Single Employer Plan, (ii) failure to satisfy the “minimum funding standard” (as defined in Section 302 of ERISA), whether or not waived, shall exist with respect to any Single Employer Plan or any Lien in favor of the PBGC or a Single Employer Plan shall arise on the assets of the Company, (iii) a Reportable Event shall occur with respect to, or proceedings shall commence to have a trustee appointed, or a trustee shall be appointed, to administer or to terminate, any Single Employer Plan, which Reportable Event or commencement of proceedings or appointment of a trustee is likely to result in the termination of such Plan for purposes of Title IV of ERISA, (iv) any Single Employer Plan shall terminate for purposes of Title IV of ERISA or (v) the Company or any Commonly Controlled Entity shall incur any liability in connection with a withdrawal from, or the Insolvency of, a Multiemployer Plan; and in each case in clauses (i) through (v) above, such event or condition, together with all other such events or conditions, if any, could reasonably be expected to have a Material Adverse Effect; or

(h) One or more judgments or decrees shall be entered against the Company or any of its Subsidiaries involving a liability (to the extent not paid or fully covered by insurance) of \$300,000,000 or more in the aggregate for all such judgments and decrees, and all such judgments or decrees shall not have been vacated, discharged, satisfied, stayed or bonded pending appeal within 90 days from the entry thereof; or

(i) Any Person or “group” (within the meaning of Section 13(d) or 14(d) of the Securities Exchange Act of 1934, as amended) (i) shall have acquired beneficial ownership of Capital Stock representing 35% or more of the aggregate ordinary voting power in the election of directors of the Company or (ii) shall obtain the power (whether or not exercised) to elect a majority of the Company’s directors; or the Company shall cease to own, beneficially and of record, the sole Class B membership interest in International or shall cease to have power to elect a majority of International’s directors; or

(j) the Guarantee of the Company under Section 10 shall cease to be in full force and effect at any time, or the validity or enforceability thereof shall be contested by the Company or any Subsidiary Borrower at any time;

then, and in any such event, (A) if such event is an Event of Default specified in clause (i) or (ii) of paragraph (f) of this Section with respect to the Company or any Subsidiary Borrower, automatically the Commitments shall immediately terminate and the Loans hereunder (with accrued interest thereon) and all other amounts owing under this Agreement and the Notes shall immediately become due and payable, and (B) if such event is any other Event of Default, either or both of the following actions may be taken: (i) with the consent of the Required Lenders, the

Managing Administrative Agent may, or upon the request of the Required Lenders, the Managing Administrative Agent shall, by notice to the Company declare the Commitments to be terminated forthwith, whereupon the Commitments shall immediately terminate; and (ii) with the consent of the Required Lenders, the Managing Administrative Agent may, or upon the request of the Required Lenders, the Managing Administrative Agent shall, by notice to the Company, declare the Loans hereunder (with accrued interest thereon) and all other amounts owing under this Agreement and the Notes to be due and payable forthwith, whereupon the same shall immediately become due and payable. Except as expressly provided above in this Section, presentment, demand, protest and all other notices of any kind are hereby expressly waived.

## SECTION 8. THE MANAGING ADMINISTRATIVE AGENT

8.1 Appointment. Each Lender hereby irrevocably designates and appoints the Managing Administrative Agent as the agent of such Lender under this Agreement and the other Loan Documents, and each such Lender irrevocably authorizes the Managing Administrative Agent, in such capacity, to take such action on its behalf under the provisions of this Agreement and the other Loan Documents and to exercise such powers and perform such duties as are expressly delegated to the Managing Administrative Agent by the terms of this Agreement and the other Loan Documents, together with such other powers as are reasonably incidental thereto. Notwithstanding any provision to the contrary elsewhere in this Agreement, the Managing Administrative Agent shall not have any duties or responsibilities, except those expressly set forth herein, or any fiduciary relationship with any Lender, and no implied covenants, functions, responsibilities, duties, obligations or liabilities shall be read into this Agreement or any other Loan Document or otherwise exist against the Managing Administrative Agent.

8.2 Delegation of Duties. The Managing Administrative Agent may execute any of its duties under this Agreement and the other Loan Documents by or through agents or attorneys-in-fact and shall be entitled to advice of counsel concerning all matters pertaining to such duties. The Managing Administrative Agent shall not be responsible for the negligence or misconduct of any agents or attorneys-in-fact selected by it with reasonable care.

8.3 Exculpatory Provisions. Neither the Managing Administrative Agent nor any of its officers, directors, employees, agents, attorneys-in-fact or Affiliates shall be (i) liable for any action lawfully taken or omitted to be taken by it or such Person under or in connection with this Agreement or any other Loan Document (except for its or such Person's own gross negligence, bad faith or willful misconduct) or (ii) responsible in any manner to any of the Lenders for any recitals, statements, representations or warranties made by the Company or any Subsidiary Borrower or any officer thereof contained in this Agreement or any other Loan Document or in any certificate, report, statement or other document referred to or provided for in, or received by the Managing Administrative Agent under or in connection with, this Agreement or any other Loan Document or for the value, validity, effectiveness, genuineness, enforceability or sufficiency of this Agreement or any other Loan Document or for any failure of any Borrower to perform its obligations hereunder or thereunder. The Managing Administrative Agent shall not be under any obligation to any Lender to ascertain or to inquire as to the observance or performance of any of the agreements contained in, or conditions of, this Agreement or any other Loan Document, or to inspect the properties, books or records of the Company or any of its Subsidiaries.

8.4 Reliance by Managing Administrative Agent. The Managing Administrative Agent shall be entitled to rely, and shall be fully protected in relying, upon any Note, writing, resolution, notice, consent, certificate, affidavit, letter, telecopy, or teletype message, statement, order or other document or conversation believed by it to be genuine and correct and to have been signed, sent or made by the proper Person or Persons and upon advice and statements of legal counsel (including, without limitation, counsel to the Company or any Subsidiary Borrower), independent accountants and other experts selected by the Managing Administrative Agent. The Managing Administrative Agent may deem and treat the payee of any Note as the owner thereof for all purposes unless a written notice of assignment, negotiation or transfer thereof shall have been filed with the Managing Administrative Agent. The Managing Administrative Agent shall be fully justified in failing or refusing to take any action under this Agreement or any other Loan Document unless it shall first receive such advice or concurrence of the Required Lenders (or such other Lenders as may be required hereunder) as it deems appropriate or it shall first be indemnified to its satisfaction by the Lenders against any and all liability and expense which may be incurred by it by reason of taking or continuing to take any such action. The Managing Administrative Agent shall in all cases be fully protected in acting, or in refraining from acting, under this Agreement and the other Loan Documents in accordance with a request of the Required Lenders (or such other Lenders as may be required hereunder), and such request and any action taken or failure to act pursuant thereto shall be binding upon all the Lenders and all future holders of the Loans.

8.5 Notice of Default. The Managing Administrative Agent shall not be deemed to have knowledge or notice of the occurrence of any Default or Event of Default (other than an Event of Default consisting of failure of any Borrower to pay when due any principal of or interest on a Loan) hereunder unless the Managing Administrative Agent has received notice from a Lender or any Borrower referring to this Agreement, describing such Default or Event of Default and stating that such notice is a “notice of default”. In the event that the Managing Administrative Agent receives such a notice, the Managing Administrative Agent shall give prompt notice thereof to the Lenders. The Managing Administrative Agent shall take such action with respect to such Default or Event of Default as shall be reasonably directed by the Required Lenders; provided that unless and until the Managing Administrative Agent shall have received such directions, the Managing Administrative Agent may (but shall not be obligated to) take such action, or refrain from taking such action, with respect to such Default or Event of Default as it shall deem advisable in the best interests of the Lenders.

8.6 Non-Reliance on Managing Administrative Agent and Other Lenders. Each Lender expressly acknowledges that neither the Managing Administrative Agent nor any of its officers, directors, employees, agents, attorneys-in-fact or Affiliates has made any representations or warranties to it and that no act by the Managing Administrative Agent hereinafter taken, including any review of the affairs of the Company or any of its Subsidiaries, shall be deemed to constitute any representation or warranty by the Managing Administrative Agent to any Lender. Each Lender represents to the Managing Administrative Agent that it has, independently and without reliance upon the Managing Administrative Agent or any other Lender, and based on such documents and information as it has deemed appropriate, made its own appraisal of and investigation into the business, operations, property, financial and other condition and creditworthiness of the Company and its Subsidiaries and made its own decision to make its Loans hereunder and enter into this Agreement. Each Lender also represents that it

will, independently and without reliance upon the Managing Administrative Agent or any other Lender, and based on such documents and information as it shall deem appropriate at the time, continue to make its own credit analysis, appraisals and decisions in taking or not taking action under the Loan Documents, and to make such investigation as it deems necessary to inform itself as to the business, operations, property, financial and other condition and creditworthiness of the Company or any of its Subsidiaries. Except for notices, reports and other documents expressly required to be furnished to the Lenders by the Managing Administrative Agent hereunder, the Managing Administrative Agent shall not have any duty or responsibility to provide any Lender with any credit or other information concerning the business, operations, property, condition (financial or otherwise), prospects or creditworthiness of the Company or any of its Subsidiaries which may come into the possession of the Managing Administrative Agent or any of its officers, directors, employees, agents, attorneys-in-fact or Affiliates.

8.7 Indemnification. The Lenders agree to indemnify the Managing Administrative Agent in its capacity as such (to the extent not reimbursed by the Company and without limiting the obligation of the Company to do so), ratably according to their respective Commitment Percentages in effect on the date on which indemnification is sought, from and against any and all liabilities, obligations, losses, damages, penalties, actions, judgments, suits, costs, expenses or disbursements of any kind whatsoever which may at any time (including, without limitation, at any time following the payment of the Loans) be imposed on, incurred by or asserted against the Managing Administrative Agent in any way relating to or arising out of, the Commitments, this Agreement, (including, without limitation, enforcement of the Managing Administrative Agent's rights under this Section) any of the other Loan Documents or any documents contemplated by or referred to herein or therein or the transactions contemplated hereby or thereby or any action taken or omitted by the Managing Administrative Agent under or in connection with any of the foregoing; provided that no Lender shall be liable for the payment of any portion of such liabilities, obligations, losses, damages, penalties, actions, judgments, suits, costs, expenses or disbursements resulting from the Managing Administrative Agent's gross negligence or willful misconduct. The agreements in this Section shall survive the payment of the Loans and all other amounts payable hereunder.

8.8 Managing Administrative Agent in Its Individual Capacity. The Managing Administrative Agent and its Affiliates may make loans to, accept deposits from and generally engage in any kind of business with any Borrower as though the Managing Administrative Agent were not the Managing Administrative Agent hereunder and under the other Loan Documents. With respect to the Loans made by it, the Managing Administrative Agent shall have the same rights and powers under this Agreement and the other Loan Documents as any Lender and may exercise the same as though it were not the Managing Administrative Agent, and the terms "Lender" and "Lenders" shall include the Managing Administrative Agent in its individual capacity.

8.9 Successor Managing Administrative Agent. The Managing Administrative Agent may resign as Managing Administrative Agent upon 15 days' notice to the Lenders, and the Managing Administrative Agent may be removed at any time with or without cause by the Required Lenders. Upon any such resignation or removal, the Required Lenders shall appoint from among the Lenders a successor agent for the Lenders, which successor agent (provided that it shall have been approved by the Company (such approval not to be unreasonably withheld)

and that the successor agent be a bank acting through an office in the United States, or an Affiliate of any such bank with an office in the United States), shall succeed to the rights, powers and duties of the Managing Administrative Agent hereunder. Effective upon such appointment and approval, the term “Managing Administrative Agent” shall mean such successor agent, and the former Managing Administrative Agent’s rights, powers and duties as Managing Administrative Agent shall be terminated, without any other or further act or deed on the part of such former Managing Administrative Agent or any of the parties to this Agreement or any holders of the Loans. After any retiring Managing Administrative Agent’s resignation or removal as Managing Administrative Agent, the provisions of this Section 8 shall inure to its benefit as to any actions taken or omitted to be taken by it while it was Managing Administrative Agent under this Agreement and the other Loan Documents.

8.10 Substitute Managing Administrative Agent. If at any time Citibank or the Company reasonably determines that Citibank is prevented from carrying out its functions as Managing Administrative Agent hereunder as contemplated hereby, Citibank or the Company, as the case may be, shall forthwith so notify the Company or Citibank, as the case may be, and the Administrative Agent (and Citibank shall promptly so notify the Lenders), and the Administrative Agent shall thereupon automatically assume and perform all of the functions of the Managing Administrative Agent and shall be entitled to all of the rights and benefits of the Managing Administrative Agent hereunder, until and only until such time as Citibank and the Company determine, and notify the Administrative Agent (which shall promptly notify the Lenders) that Citibank is no longer prevented from carrying out its functions as Managing Administrative Agent hereunder as contemplated hereby, whereupon Citibank shall automatically resume and perform all of the functions of the Managing Administrative Agent hereunder. Each Lender agrees to the foregoing and authorizes the Administrative Agent to assume and perform the functions of the Managing Administrative Agent under the circumstances set forth above.

8.11 Arrangers, Etc. The parties designated on the cover page hereof as “Joint Lead Arranger”, “Joint Book Manager”, “Global Coordinator”, “Regional Coordinator”, “Syndication Agent” or “Documentation Agent” shall have, in their capacities as such, no responsibilities or liabilities under or in connection with this Agreement.

8.12 Certain ERISA Matters.

(a) Each Lender (x) represents and warrants, as of the date such Person became a Lender party hereto, to, any (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Managing Administrative Agent and not, for the avoidance of doubt, to or for the benefit of the Borrower or any Subsidiary or Subsidiary Borrower party to this Agreement, that at least one of the following is and will be true:

(i) such Lender is not using “plan assets” (within the meaning of Section 3(42) of ERISA or otherwise) of one or more Benefit Plans with respect to such Lender’s entrance into, participation in, administration of and performance of the Loans, the Commitments or this Agreement,



(ii) the transaction exemption set forth in one or more PTEs, such as PTE 84-14 (a class exemption for certain transactions determined by independent qualified professional asset managers), PTE 95-60 (a class exemption for certain transactions involving insurance company general accounts), PTE 90-1 (a class exemption for certain transactions involving insurance company pooled separate accounts), PTE 91-38 (a class exemption for certain transactions involving bank collective investment funds) or PTE 96-23 (a class exemption for certain transactions determined by in-house asset managers), is applicable with respect to such Lender's entrance into, participation in, administration of and performance of the Loans, the Commitments and this Agreement,

(iii) (A) such Lender is an investment fund managed by a "Qualified Professional Asset Manager" (within the meaning of Part VI of PTE 84-14), (B) such Qualified Professional Asset Manager made the investment decision on behalf of such Lender to enter into, participate in, administer and perform the Loans, the Commitments and this Agreement, (C) the entrance into, participation in, administration of and performance of the Loans, the Commitments and this Agreement satisfies the requirements of sub-sections (b) through (g) of Part I of PTE 84-14 and (D) to the best knowledge of such Lender, the requirements of subsection (a) of Part I of PTE 84-14 are satisfied with respect to such Lender's entrance into, participation in, administration of and performance of the Loans, the Commitments and this Agreement, or

(iv) such other representation, warranty and covenant as may be agreed in writing between the Managing Administrative Agent, in its sole discretion, and such Lender.

(b) In addition, unless either (1) sub-clause (i) in the immediately preceding clause (a) is true with respect to a Lender or (2) a Lender has provided another representation, warranty and covenant in accordance with sub-clause (iv) in the immediately preceding clause (a), such Lender further (x) represents and warrants, as of the date such Person became a Lender party hereto, to, and (y) covenants, from the date such Person became a Lender party hereto to the date such Person ceases being a Lender party hereto, for the benefit of, the Managing Administrative Agent and not, for the avoidance of doubt, to or for the benefit of the Company or any Subsidiary or Subsidiary Borrower party to this Agreement, that the Managing Administrative Agent is not a fiduciary with respect to the assets of such Lender involved in such Lender's entrance into, participation in, administration of and performance of the Loans, the Commitments and this Agreement (including in connection with the reservation or exercise of any rights by the Managing Administrative Agent under this Agreement, any Loan Document or any documents related hereto or thereto).

### 8.13 Erroneous Payments.

(a) If the Managing Administrative Agent (x) notifies a Lender or any Person who has received funds on behalf of a Lender (any such Lender or other recipient (and each of their respective successors and assigns), a "Payment Recipient") that the Managing Administrative Agent has determined in its sole discretion (whether or not after receipt of any notice under immediately succeeding clause (b)) that any funds (as set forth in such notice from the Managing Administrative Agent) received by such Payment Recipient from the Managing Administrative Agent or any of its Affiliates were erroneously or mistakenly transmitted to, or

otherwise erroneously or mistakenly received by, such Payment Recipient (whether or not known to such Lender or other Payment Recipient on its behalf) (any such funds, whether transmitted or received as a payment, prepayment or repayment of principal, interest, fees, distribution or otherwise, individually and collectively, an “Erroneous Payment”) and (y) demands in writing the return of such Erroneous Payment (or a portion thereof), such Erroneous Payment shall at all times remain the property of the Managing Administrative Agent pending its return or repayment as contemplated below in this Section 8.13 and held in trust for the benefit of the Managing Administrative Agent, and such Lender shall (or, with respect to any Payment Recipient who received such funds on its behalf, shall cause such Payment Recipient to) promptly, but in no event later than two Business Days thereafter (or such later date as the Managing Administrative Agent may, in its sole discretion, specify in writing), return to the Managing Administrative Agent the amount of any such Erroneous Payment (or portion thereof) as to which such a demand was made, in same day funds (in the currency so received), together with interest thereon (except to the extent waived in writing by the Managing Administrative Agent) in respect of each day from and including the date such Erroneous Payment (or portion thereof) was received by such Payment Recipient to the date such amount is repaid to the Managing Administrative Agent in same day funds at the greater of the Federal Funds Rate and a rate determined by the Managing Administrative Agent in accordance with banking industry rules on interbank compensation from time to time in effect. A notice of the Managing Administrative Agent to any Payment Recipient under this clause (a) shall be conclusive, absent manifest error.

(b) Without limiting immediately preceding clause (a), each Lender or any Person who has received funds on behalf of a Lender (and each of their respective successors and assigns), agrees that if it receives a payment, prepayment or repayment (whether received as a payment, prepayment or repayment of principal, interest, fees, distribution or otherwise) from the Managing Administrative Agent (or any of its Affiliates) (x) that is in a different amount than, or on a different date from, that specified in this Agreement or in a notice of payment, prepayment or repayment sent by the Managing Administrative Agent (or any of its Affiliates) with respect to such payment, prepayment or repayment, (y) that was not preceded or accompanied by a notice of payment, prepayment or repayment sent by the Managing Administrative Agent (or any of its Affiliates), or (z) that such Lender, or other such recipient, otherwise becomes aware was transmitted, or received, in error or by mistake (in whole or in part), then in each such case:

(i) it acknowledges and agrees that (A) in the case of immediately preceding clauses (x) or (y), an error and mistake shall be presumed to have been made (absent written confirmation from the Managing Administrative Agent to the contrary) or (B) an error and mistake has been made (in the case of immediately preceding clause (z)), in each case, with respect to such payment, prepayment or repayment; and

(ii) such Lender shall use commercially reasonable efforts to cause any other recipient that receives funds on its respective behalf to promptly (and, in all events, within one Business Day of its knowledge of the occurrence of any of the circumstances described in immediately preceding clauses (x), (y) and (z)) notify the Managing Administrative Agent of its receipt of such payment, prepayment or repayment, the details thereof (in reasonable detail) and that it is so notifying the Managing Administrative Agent pursuant to this Section 8.13(b).

For the avoidance of doubt, the failure to deliver a notice to the Managing Administrative Agent pursuant to this Section 8.13(b) shall not have any effect on a Payment Recipient's obligations pursuant to Section 8.13(a) or on whether or not an Erroneous Payment has been made.

(c) Each Lender hereby authorizes the Managing Administrative Agent to set off, net and apply any and all amounts at any time owing to such Lender under any Loan Document, or otherwise payable or distributable by the Managing Administrative Agent to such Lender under any Loan Document with respect to any payment of principal, interest, fees or other amounts, against any amount that the Managing Administrative Agent has demanded to be returned under immediately preceding clause (a).

(d) (i) In the event that an Erroneous Payment (or portion thereof) is not recovered by the Managing Administrative Agent for any reason, after demand therefor in accordance with immediately preceding clause (a), from any Lender that has received such Erroneous Payment (or portion thereof) (and/or from any Payment Recipient who received such Erroneous Payment (or portion thereof) on its respective behalf) (such unrecovered amount, an "Erroneous Payment Return Deficiency"), upon the Managing Administrative Agent's notice to such Lender at any time (and at all times subject to the consent rights of the Company required by Section 9.6(c)(i)) (with the consideration therefor being acknowledged by the parties hereto), (A) such Lender shall be deemed to have assigned its Loans (but not its Commitments) with respect to which such Erroneous Payment was made (the "Erroneous Payment Impacted Class") in an amount equal to the Erroneous Payment Return Deficiency (or such lesser amount as the Managing Administrative Agent may specify) (such assignment of the Loans (but not Commitments) of the Erroneous Payment Impacted Class, the "Erroneous Payment Deficiency Assignment") (on a cashless basis and such amount calculated at par plus any accrued and unpaid interest (with the assignment fee to be waived by the Managing Administrative Agent in such instance)), and is hereby deemed to execute and deliver an Assignment and Assumption with respect to such Erroneous Payment Deficiency Assignment, and such Lender shall deliver any Notes evidencing such Loans to the Borrowers or the Managing Administrative Agent (but the failure of such Person to deliver any such Notes shall not affect the effectiveness of the foregoing assignment), (B) the Managing Administrative Agent as the assignee Lender shall be deemed to have acquired the Erroneous Payment Deficiency Assignment, (C) upon such deemed acquisition, the Managing Administrative Agent as the assignee Lender shall become a Lender, as applicable, hereunder with respect to such Erroneous Payment Deficiency Assignment and the assigning Lender shall cease to be a Lender, as applicable, hereunder with respect to such Erroneous Payment Deficiency Assignment, excluding, for the avoidance of doubt, its obligations under the indemnification provisions of this Agreement and its applicable Commitments which shall survive as to such assigning Lender, (D) the Managing Administrative Agent shall be deemed to have waived any consents required under this Agreement to any such Erroneous Payment Deficiency Assignment, and (E) the Managing Administrative Agent will reflect in the Register its ownership interest in the Loans subject to the Erroneous Payment Deficiency Assignment. For the avoidance of doubt, no Erroneous Payment Deficiency Assignment will reduce the Commitments of any Lender and such Commitments shall remain available in accordance with the terms of this Agreement.

(ii) Subject to Section 9.6 (but excluding, in all events, any assignment consent or approval requirements of parties other than the Company (it being understood and agreed that at all assignments of Loans are subject to the consent rights of the Company required by Section 9.6(c)(i))), the Managing Administrative Agent may, in its discretion, sell any Loans acquired pursuant to an Erroneous Payment Deficiency Assignment and upon receipt of the proceeds of such sale, the Erroneous Payment Return Deficiency owing by the applicable Lender shall be reduced by the net proceeds of the sale of such Loan (or portion thereof), and the Managing Administrative Agent shall retain all other rights, remedies and claims against such Lender (and/or against any recipient that receives funds on its respective behalf). In addition, an Erroneous Payment Return Deficiency owing by the applicable Lender (x) shall be reduced by the proceeds of prepayments or repayments of principal and interest, or other distribution in respect of principal and interest, received by the Managing Administrative Agent on or with respect to any such Loans acquired from such Lender pursuant to an Erroneous Payment Deficiency Assignment (to the extent that any such Loans are then owned by the Managing Administrative Agent) and (y) may, in the sole discretion of the Managing Administrative Agent, be reduced by any amount specified by the Managing Administrative Agent in writing to the applicable Lender from time to time.

(e) The parties hereto agree that (x) irrespective of whether the Managing Administrative Agent may be equitably subrogated, in the event that an Erroneous Payment (or portion thereof) is not recovered from any Payment Recipient that has received such Erroneous Payment (or portion thereof) for any reason, the Managing Administrative Agent shall be subrogated to all the rights and interests of such Payment Recipient (and, in the case of any Payment Recipient who has received funds on behalf of a Lender, to the rights and interests of such Lender, as the case may be) under the Loan Documents with respect to such amount (the “Erroneous Payment Subrogation Rights”) (provided that the obligations of the Company and the Subsidiary Borrowers under the Loan Documents in respect of the Erroneous Payment Subrogation Rights shall not be duplicative of such obligations in respect of Loans that have been assigned to the Managing Administrative Agent under an Erroneous Payment Deficiency Assignment) and (y) an Erroneous Payment shall not pay, prepay, repay, discharge or otherwise satisfy any Obligations owed by the Company or any Subsidiary Borrower; provided that this Section 8.13 shall not be interpreted to increase (or accelerate the due date for), or have the effect of increasing (or accelerating the due date for), the Obligations of the Company or any Subsidiary Borrower relative to the amount (and/or timing for payment) of the Obligations that would have been payable had such Erroneous Payment not been made by the Managing Administrative Agent; provided, further, that for the avoidance of doubt, immediately preceding clauses (x) and (y) shall not apply to the extent any such Erroneous Payment is, and solely with respect to the amount of such Erroneous Payment that is, comprised of funds received by the Managing Administrative Agent from the Company or any Subsidiary Borrower for the purpose of making such Erroneous Payment.

(f) To the extent permitted by applicable law, no Payment Recipient shall assert any right or claim to an Erroneous Payment, and hereby waives, and is deemed to waive, any claim, counterclaim, defense or right of set-off or recoupment with respect to any demand, claim or counterclaim by the Managing Administrative Agent for the return of any Erroneous

Payment received, including, without limitation, any defense based on “discharge for value” or any similar doctrine.

(g) Each party’s obligations, agreements and waivers under this Section 8.13 shall survive the resignation or replacement of the Managing Administrative Agent, any transfer of rights or obligations by, or the replacement of, a Lender, the termination of the Commitments and/or the repayment, satisfaction or discharge of all Obligations (or any portion thereof) under any Loan Document.

## SECTION 9. MISCELLANEOUS

9.1 Amendments and Waivers. Neither this Agreement nor any other Loan Document, nor any terms hereof or thereof may be amended, supplemented or modified except in accordance with the provisions of this Section or as provided in Section 2.11, 2.18 or 2.19. The Required Lenders may, or, with the written consent of the Required Lenders, the Managing Administrative Agent may, from time to time, (a) enter into with the Borrowers written amendments, supplements or modifications hereto and to the other Loan Documents for the purpose of adding any provisions to this Agreement or the other Loan Documents or changing in any manner the rights of the Lenders or of the Borrowers hereunder or thereunder or (b) waive, on such terms and conditions as the Required Lenders or the Managing Administrative Agent, as the case may be, may specify in such instrument, any of the requirements of this Agreement or the other Loan Documents or any Default or Event of Default and its consequences; provided, however, that no such waiver and no such amendment, supplement or modification shall (i) reduce the amount or extend the scheduled date of maturity of any Loan or reduce the stated rate of any interest or fee payable hereunder or extend the scheduled date of any payment thereof or increase the amount or extend the expiration date of any Lender’s Commitment, in each case without the written consent of each Lender affected thereby, or (ii) reduce the voting rights of any Lender under this Section or amend, modify or waive subsection 9.6(a) or reduce the percentage specified in the definition of Required Lenders, or consent to the assignment or transfer by the Company or any Subsidiary Borrower of any of its rights and obligations under this Agreement and the other Loan Documents, or release or terminate the obligations of the Company under Section 10, so long as any Subsidiary Borrower is a party hereto or the Company has the right to so designate a Subsidiary Borrower hereunder, in each case without the written consent of all the Lenders, or (iii) amend, modify or waive any provision of Section 8 without the written consent of the then Managing Administrative Agent and the Administrative Agent, or (iv) amend, modify or waive any provision of any Loan Document that adversely affects any Swing Line Lender in its capacity as such without the written consent of such Swing Line Lender or (v) amend, modify or waive Section 2.12 or Section 9.7(a) of this Agreement in a manner that would alter the pro rata payment and sharing provisions contained therein, without the consent of each Lender affected thereby, or (vi) amend, modify or waive any provision of Section 2.23(d) without the written consent of all the Lenders. Any such waiver and any such amendment, supplement or modification shall apply equally to each of the Lenders and shall be binding upon the Borrowers, the Lenders, the Managing Administrative Agent and all future holders of the Loans. In the case of any waiver, the Borrowers, the Lenders and the Managing Administrative Agent shall be restored to their former positions and rights hereunder and under the other Loan Documents, and any Default or Event of Default waived shall be deemed to be cured and not continuing; no such waiver shall extend to any subsequent or other Default or Event of Default or impair any right consequent thereon.

Anything herein to the contrary notwithstanding, during such period as a Lender is a Defaulting Lender, to the fullest extent permitted by applicable law, such Lender will not be entitled to vote in respect of amendments and waivers hereunder and the Commitment and the outstanding Loans of such Lender hereunder will not be taken into account in determining whether the Required Lenders or all of the Lenders, as required, have approved any such amendment or waiver (and the definition of "Required Lenders" will automatically be deemed modified accordingly for the duration of such period); provided that any such amendment or waiver that would increase or extend the term of the Commitment of such Defaulting Lender, extend the date fixed for the payment of principal or interest owing to such Defaulting Lender hereunder, reduce the principal amount of any obligation owing to such Defaulting Lender, reduce the amount of or the rate or amount of interest on any amount owing to such Defaulting Lender or of any fee payable to such Defaulting Lender hereunder, alter the terms of this proviso, or require consent of all the Lenders will require the consent of such Defaulting Lender.

Notwithstanding anything to the contrary herein, any provision of this Agreement may be amended by an agreement in writing entered into by the Managing Administrative Agent and the Company to (x) effect administrative changes of a technical nature or (y) cure any mistake, defect or inconsistency (as reasonably determined by the Managing Administrative Agent and the Company).

9.2 Notices. (a) All notices, requests and demands to or upon the respective parties hereto to be effective shall be in writing and, unless otherwise expressly provided herein, shall be deemed to have been duly given or made (i) in the case of delivery by hand, when delivered, or (ii) in the case of delivery by mail, three Business Days after being deposited in the mails, certified or registered postage prepaid, addressed as follows in the case of the Company, any Subsidiary Borrower and the Managing Administrative Agent, and as set forth in an Administrative Questionnaire delivered to the Managing Administrative Agent in the case of the Lenders, or to such other address as may be hereafter notified by the respective parties hereto:

Company: Mastercard Incorporated  
2000 Purchase Street  
Purchase, New York 10577-2509  
Attention: Corporate Treasurer  
Telephone: \*\*\*\*\*

Any Subsidiary  
Borrower: c/o Mastercard Incorporated  
2000 Purchase Street  
Purchase, New York 10577-2509  
Attention: Corporate Treasurer  
Telephone: \*\*\*\*\*

The Managing  
Administrative  
Agent or the  
Swing Line Lender: Citibank Delaware  
1 Penns Way, OPS II  
New Castle, Delaware 19720  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*

and

Citibank, N.A.  
Attention: Citi FI Team  
388 Greenwich Street  
New York, New York 10013  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*

and

Citibank, N.A.  
Attn: Citi Loan Ops  
1615 Brett Road, Building No. 3  
New Castle, Delaware 19720  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

and, if such notice or other communication relates to borrowings of, or payments or prepayments of, or the duration of Interest Periods for, Loans denominated in Euros, also to:

Citibank, N.A.  
1 Penns Way, OPS II  
New Castle, DE 19720  
Attn: Agency Operations  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*  
Borrower inquiries only: \*\*\*\*\*  
Borrower notifications: \*\*\*\*\*

The Administrative  
Agent or the

Swing Line Lender: JPMorgan Chase Bank, N.A.  
JPM-Delaware Loan Operations  
Attention: \*\*\*\*\*  
500 Stanton Christiana Road, Ops 2/3  
Newark, Delaware 19713-2107  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

The Swing Line

Lender: Bank of China, New York Branch  
Attention: \*\*\*\*\*  
1045 Avenue of the Americas  
New York, NY 10018  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

or

Bank of China, New York Branch  
Attention: \*\*\*\*\*  
1045 Avenue of the Americas  
New York, NY 10018  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

The Swing Line

Lender: Deutsche Bank AG New York Branch  
Attention: \*\*\*\*\*  
60 Wall Street  
New York, NY 10005  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

The Swing Line

Lender: U.S. Bank, National Association  
Attention: \*\*\*\*\*  
\*\*\*\*\*  
  
800 Nicollet Mall, 3rd Floor  
Minneapolis, MN 55402  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

The Swing Line

Lender: Bank of America, N.A.  
Attention: \*\*\*\*\*  
One Independence Center  
101 N. Tryon Street  
Charlotte, NC 28255  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*



The Swing Line

Lender: Goldman Sachs Bank USA  
Attention: \*\*\*\*\*  
200 West Street  
New York, NY 10282  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
\*\*\*\*\*

The Swing Line

Lender: Wells Fargo Bank, National Association  
1700 Lincoln St.  
Denver, CO 80203

Attention: \*\*\*\*\*  
Attention: \*\*\*\*\*  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*

The Swing Line

Lender: Lloyds Bank Corporate Markets PLC  
1095 Avenue of the Americas, 34<sup>th</sup> Floor  
New York, NY 10036  
Attention: \*\*\*\*\*  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

provided that any notice, request or demand to or upon the Managing Administrative Agent or the Lenders pursuant to Section 2.2, 2.4, 2.6, 2.7, 2.12, 2.13, 2.19 or 2.23 shall not be effective until received; and provided, further, that if any notice or other communication is received after a recipient's normal business hours, then such notice or other communication shall be deemed received upon the opening of the recipient's next business day.

(b) The Company hereby agrees that it will provide to the Managing Administrative Agent all information, documents and other materials that it is obligated to furnish to the Managing Administrative Agent pursuant to the Loan Documents, including, without limitation, all notices, requests, financial statements, financial and other reports, certificates and other information materials, but excluding any such communication that (i) requests, or converts or continues under Section 2.7 hereof, a borrowing or relates to the payment of any principal or other amount due under this Agreement prior to the scheduled date therefor, (ii) provides notice of any Default or Event of Default under this Agreement, (iii) is required to be delivered to satisfy any condition precedent to the occurrence of the Fourth Restatement Effective Date and/or any borrowing, or (iv) initiates or responds to legal process (all such non-excluded communications being referred to herein collectively as

“Communications”), by transmitting the Communications in an electronic/soft medium (including Internet or intranet websites) in a format acceptable to the Managing Administrative Agent to [oploanswebadmin@citigroup.com](mailto:oploanswebadmin@citigroup.com). In addition, the Company agrees to continue to provide the Communications to the Managing Administrative Agent in the manner specified in the Loan Documents but only to the extent requested by the Managing Administrative Agent.

(c) The Company further agrees that the Managing Administrative Agent may make the Communications available to the Lenders by posting the Communications on Intralinks or a substantially similar electronic transmission system (the “Platform”). THE PLATFORM IS PROVIDED “AS IS” AND “AS AVAILABLE”. THE AGENT PARTIES (AS DEFINED BELOW) DO NOT WARRANT THE ACCURACY OR COMPLETENESS OF THE COMMUNICATIONS, OR THE ADEQUACY OF THE PLATFORM AND EXPRESSLY DISCLAIM LIABILITY FOR ERRORS OR OMISSIONS IN THE COMMUNICATIONS. NO WARRANTY OF ANY KIND, EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, NON-INFRINGEMENT OF THIRD PARTY RIGHTS OR FREEDOM FROM VIRUSES OR OTHER CODE DEFECTS, IS MADE BY THE AGENT PARTIES IN CONNECTION WITH THE COMMUNICATIONS OR THE PLATFORM. IN NO EVENT SHALL THE MANAGING ADMINISTRATIVE AGENT OR ANY OF ITS AFFILIATES OR ANY OF THEIR RESPECTIVE OFFICERS, DIRECTORS, EMPLOYEES, AGENTS, ADVISORS OR REPRESENTATIVES (COLLECTIVELY, THE “AGENT PARTIES”) HAVE ANY LIABILITY TO ANY BORROWER, ANY LENDER OR ANY OTHER PERSON OR ENTITY FOR DAMAGES OF ANY KIND, INCLUDING, WITHOUT LIMITATION, DIRECT OR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSSES OR EXPENSES (WHETHER IN TORT, CONTRACT OR OTHERWISE) ARISING OUT OF THE COMPANY’S OR THE MANAGING ADMINISTRATIVE AGENT’S TRANSMISSION OF COMMUNICATIONS THROUGH THE INTERNET, EXCEPT TO THE EXTENT THE LIABILITY OF ANY AGENT PARTY IS FOUND IN A FINAL NON-APPEALABLE JUDGMENT BY A COURT OF COMPETENT JURISDICTION TO HAVE RESULTED PRIMARILY FROM SUCH AGENT PARTY’S GROSS NEGLIGENCE, BAD FAITH OR WILLFUL MISCONDUCT.

(d) The Managing Administrative Agent agrees that the receipt of the Communications by the Managing Administrative Agent at its e-mail address set forth above shall constitute effective delivery of the Communications to the Managing Administrative Agent for purposes of the Loan Documents. Each Lender agrees that notice to it (as provided in the next sentence) specifying that the Communications have been posted to the Platform shall constitute effective delivery of the Communications to such Lender for purposes of the Loan Documents, provided that the notice is received by such Lender during its normal business hours. Each Lender agrees (i) to provide to the Managing Administrative Agent in writing (including by electronic communication), promptly after the date of this Agreement, an e-mail address to which the foregoing notice may be sent by electronic transmission and (ii) that the foregoing notice may be sent to such e-mail address.

(e) Nothing herein shall prejudice the right of the Managing Administrative Agent or any Lender to give any notice or other communication pursuant to any Loan Document in any other manner specified in such Loan Document.

9.3 No Waiver; Cumulative Remedies. No failure to exercise and no delay in exercising, on the part of the Managing Administrative Agent or any Lender, any right, remedy, power or privilege hereunder or under the other Loan Documents shall operate as a waiver thereof; nor shall any single or partial exercise of any right, remedy, power or privilege hereunder preclude any other or further exercise thereof or the exercise of any other right, remedy, power or privilege. The rights, remedies, powers and privileges herein provided are cumulative and not exclusive of any rights, remedies, powers and privileges provided by law.

9.4 Survival of Representations and Warranties. All representations and warranties made hereunder, in the other Loan Documents and in any document, certificate or statement delivered pursuant hereto or in connection herewith shall survive the execution and delivery of this Agreement and the making of the Loans hereunder.

9.5 Payment of Expenses. The Company agrees (a) to pay or reimburse the Managing Administrative Agent for all reasonable and documented fees, charges and disbursements of a single primary counsel and, to the extent reasonably necessary, a single local counsel in each Relevant Jurisdiction, incurred in connection with this Agreement and the other Loan Documents or the amendment, modification or waiver thereof, (b) to pay or reimburse each Lender, each Swing Line Lender and the Managing Administrative Agent for all its costs and expenses incurred in connection with the enforcement or preservation of any rights under this Agreement (including, without limitation, this Section), the other Loan Documents and any such other documents, including, without limitation, the reasonable fees and disbursements of a single primary counsel and, to the extent reasonably necessary, a single local counsel in each Relevant Jurisdiction (except that in the case of a conflict of interest, the Company shall pay the costs and expenses of one additional counsel for each group of similarly situated Lenders, taken as a whole) to the Lenders and the Managing Administrative Agent, (c) to pay, indemnify, and hold harmless each Lender, each Swing Line Lender, the Managing Administrative Agent, their respective Affiliates and their respective officers, directors, employees, agents and advisors (each, an “Indemnatee”) from, any and all recording and filing fees and against any and all other claims, liabilities, obligations, losses, damages and expenses (including, without limitation, reasonable fees and disbursements of counsel) with respect to the execution, delivery, enforcement, performance and administration of this Agreement (including, without limitation, this Section), the other Loan Documents and any such other documents, including, without limitation, any investigative, administrative or judicial proceeding relating to the foregoing whether or not such investigation, litigation or proceeding is brought by the Company, any of its directors, security holders or creditors, an Indemnatee or any other person or an Indemnatee is otherwise a party thereto, or any of the foregoing relating to any actual or proposed use of proceeds of the Loans or the violation of, noncompliance with or liability under, any Environmental Law applicable to the operations of the Company, any of its Subsidiaries or any of the Properties or arising out of the Commitments (all the foregoing in this clause (d), collectively, the “indemnified liabilities”), provided that the Company shall have no obligation hereunder to any Indemnatee with respect to indemnified liabilities or expense (i) arising from the gross negligence, bad faith or willful misconduct of such Indemnatee or its officers, directors, employees, agents, advisors or Affiliates, or arises primarily out of a material breach by such Indemnified Party of its obligations under this Agreement, as determined by a final non-appealable judgment of a court of competent jurisdiction or (ii) resulting from any investigative, administrative or judicial proceeding that does not involve an act or omission by the Company or any of its Affiliates and that is solely among Indemnified Parties (other than claims against the Managing Administrative Agent or Swing Line Lender in its capacity or in fulfilling its roles as such hereunder). No Indemnatee shall be liable for any damages arising from the use by unintended recipients of any information or other materials distributed by it through telecommunications, electronic or other information transmission systems in connection with this Agreement or the other Loan Documents or the transactions contemplated hereby or thereby

(except to the extent (i) such unintended recipients received such information or materials as a result of such Indemnitee's violation of its confidentiality obligations hereunder or (ii) as a result of such Indemnitee, its officers, directors, employees, agents, advisors or Affiliates' gross negligence, bad faith or willful misconduct, provided that such gross negligence, bad faith or willful misconduct has been determined by a final non-appealable judgment of a court of competent jurisdiction). The Company and each Subsidiary Borrower waives, to the maximum extent not prohibited by law, any right it may have to claim or recover in any legal action or proceeding referred to in this Section any special, indirect, punitive or consequential damages. The agreements in this Section shall survive repayment of the Loans and all other amounts payable hereunder.

#### 9.6 Successors and Assigns; Participations and Assignments.

(a) This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns, except that (i) neither the Company nor any Subsidiary Borrower may assign or transfer any of its rights or obligations under this Agreement without the prior written consent of each Lender (and any attempted assignment or transfer by any Borrower without such consent shall be null and void), except that pursuant to Section 2.23(c) any Subsidiary Borrower may assign its rights and obligations hereunder to the Company pursuant to an assignment and assumption agreement in form and substance reasonably satisfactory to the Managing Administrative Agent, and (ii) no Lender may assign or transfer any of its rights or obligations under this Agreement to a Defaulting Lender.

(b) Any Lender may, in the ordinary course of its commercial banking business and in accordance with applicable law, at any time sell to one or more banks or other entities (other than Ineligible Persons) ("Participants") participating interests in any Loan owing to such Lender, any Commitment or Swing Line Commitment of such Lender or any other interest of such Lender hereunder and under the other Loan Documents. In the event of any such sale by a Lender of a participating interest to a Participant, such Lender's obligations under this Agreement to the other parties to this Agreement shall remain unchanged, such Lender shall remain solely responsible for the performance thereof, such Lender shall remain the holder of any such Loan for all purposes under this Agreement and the other Loan Documents, and the Borrowers and the Managing Administrative Agent shall continue to deal solely and directly with such Lender in connection with such Lender's rights and obligations under this Agreement and the other Loan Documents. No Lender shall be entitled to create in favor of any Participant, in the participation agreement pursuant to which such Participants participating interest shall be created or otherwise, any right to vote on, consent to or approve any matter relating to this Agreement or any other Loan Document except for those specified in clauses (i), (ii), (iii) and (v) of the proviso to Section 9.1. The Company and each Subsidiary Borrower agrees that if amounts outstanding under this Agreement are due or unpaid, or shall have been declared or shall have become due and payable upon the occurrence of an Event of Default, each Participant shall, to the maximum extent permitted by applicable law, be deemed to have the right of set-off in respect of its participating interest in amounts owing under this Agreement to the same extent as if the amount of its participating interest were owing directly to it as a Lender under this Agreement, provided that, in purchasing such participating interest, such Participant shall be deemed to have agreed to share with the Lenders the proceeds thereof as provided in subsection 9.7(a) as fully as if it were a Lender hereunder. The Company also agrees that each Participant shall be entitled to the benefits of Sections 2.12, 2.13, 2.15 and 2.16 with respect to its participation in the Commitments, Swing Line Commitments and the Loans outstanding from time to time as if it was a Lender; provided that, in the case of Section 2.16, such Participant shall have complied with the requirements of said Section and provided, further, that no Participant shall be entitled to receive any greater amount pursuant to any such Section than the transferor Lender would have been entitled to receive in respect of the amount of the

participation transferred by such transferor Lender to such Participant had no such transfer occurred. Each Lender that sells a participation shall, acting solely for this purpose as a non-fiduciary agent of the applicable Borrower, maintain a register on which it enters the name and address of each Participant and the principal amounts of (and stated interest on) each Participant's interest in the Loans or other obligations under the Loan Documents (the "Participant Register"); provided that no Lender shall have any obligation to disclose all or any portion of the Participant Register to any Person (including the identity of any Participant or any information relating to a Participant's interest in any Commitments, Loans, or its other obligations under any Loan Document) except to the extent that such disclosure is necessary to establish that such Commitment, Loan, or other obligation is in registered form under Section 5f.103-1(c) of the United States Treasury Regulations, and under Section 1.163-5(b) of the proposed United States Treasury Regulations. The entries in the Participant Register shall be conclusive absent manifest error, and such Lender shall treat each Person whose name is recorded in the Participant Register as the owner of such participation for all purposes of this Agreement notwithstanding any notice to the contrary.

(c) Any Lender may, in the ordinary course of its commercial banking business and in accordance with applicable law, at any time and from time to time assign to one or more banks or other financial institutions, including a finance company or fund (whether a corporation, partnership or other entity) which is engaged in making, purchasing or otherwise investing in commercial loans in the ordinary course of its business, and having total assets in excess of \$500,000,000 (other than Ineligible Persons) (such bank or financial institution, an "Assignee") all or any part of its rights and obligations under this Agreement and the other Loan Documents; provided, however, that

(i) except in the case of an assignment to a Lender or, subject to giving prior written notice thereof to the Company and the Managing Administrative Agent, an Affiliate of a Lender which is a bank or financial institution, each of the Managing Administrative Agent, each Swing Line Lender and (except when a Default or Event of Default shall have occurred and be continuing) the Company must give its consent to such assignment (which in each case shall not be unreasonably withheld or delayed); provided that the Company shall be deemed to have consented to any such assignment unless it shall object thereto by written notice to the Managing Administrative Agent within fifteen (15) Business Days after written notice of such assignment shall have delivered to the Company to the attention of its Treasurer and Assistant Treasurer;

(ii) the rights and obligations of each Swing Line Lender relating to its Swing Line Loans and Swing Line Commitment may be assigned or retained, at its option, independently of any of its other rights and obligations under the Loan Documents in connection with any assignment otherwise permitted hereunder;

(iii) in the case of any assignment to any Assignee that is not a Lender or an Affiliate thereof, the sum of the aggregate principal amount of the Loans and the aggregate amount of the Commitments and Swing Line Commitments being assigned and, if such assignment is of less than all of the rights and obligations of the assigning Lender, the sum of the aggregate principal amount of the Loans and the aggregate amount of the Commitments and Swing Line Commitments remaining with the assigning Lender are each not less than \$5,000,000 (or such lesser amount as may be agreed to by the Company and the Managing Administrative Agent); and

(iv) such assignment shall be evidenced by an Assignment and Acceptance, substantially in the form of Exhibit H, executed by such Assignee, such assigning Lender (and, in the case of an Assignee that is not then a Lender or an Affiliate thereof, by the Company and the Managing Administrative Agent) and delivered to the Managing Administrative Agent for its acceptance and recording in the Register.

Upon such execution, delivery, acceptance and recording, from and after the effective date determined pursuant to such Assignment and Acceptance, (x) the Assignee thereunder shall be a party hereto and, to the extent provided in such Assignment and Acceptance, have the rights and obligations of a Lender hereunder with a Commitment or Swing Line Commitment as set forth therein, and (y) the assigning Lender thereunder shall, to the extent provided in such Assignment and Acceptance, be released from its obligations under this Agreement (and, in the case of an Assignment and Acceptance covering all or the remaining portion of an assigning Lender's rights and obligations under this Agreement such assigning Lender shall cease to be a party hereto). Notwithstanding any provision of this paragraph (c) and paragraph (f) of this Section, the consent of the Company shall not be required, and, unless requested by the Assignee and/or the assigning Lender, new Notes shall not be required to be executed and delivered by any Borrower, for any assignment which occurs at any time when any of the events described in Section 7(f) shall have occurred and be continuing.

(d) The Managing Administrative Agent, acting solely for this purpose as non-fiduciary agent of the Borrowers, shall maintain at the address of the Managing Administrative Agent referred to in Section 9.2 a copy of each Assignment and Acceptance delivered to it and a register (the "Register") for the recordation of the names and addresses of the Lenders and the Commitment of, and principal amount of (and stated interest on) and Currency of the Loans owing to, each Lender from time to time. The entries in the Register shall be conclusive, in the absence of manifest error, and each Borrower, the Managing Administrative Agent and the Lenders shall treat each Person whose name is recorded in the Register as the owner of a Loan or other obligation hereunder as the owner thereof for all purposes of this Agreement and the other Loan Documents, notwithstanding any notice or any other provisions hereof to the contrary. Any assignment of any Loan or other obligation hereunder shall be effective only upon appropriate entries with respect thereto being made in the Register. The

Register shall be available for inspection by the Company or any Lender at any reasonable time and from time to time upon reasonable prior notice.

(e) Upon its receipt of an Assignment and Acceptance executed by an assigning Lender and an Assignee (and, in the case of an Assignee that is not then a Lender or an Affiliate thereof, by the Company and the Managing Administrative Agent) together with payment to the Managing Administrative Agent of a registration and processing fee of \$3,500 and (if the Assignee is not a Lender) delivery to the Managing Administrative Agent of such Assignee's Administrative Questionnaire, the Managing Administrative Agent shall (i) promptly accept such Assignment and Acceptance and (ii) on the effective date determined pursuant thereto record the information contained therein in the Register and give notice of such acceptance and recordation to the Lenders and the applicable Borrower.

(f) The Company authorizes each Lender to disclose to any Participant or Assignee (each, a "Transferee") and any prospective Transferee any and all financial information in such Lender's possession concerning the Company and its Subsidiaries and Affiliates which has been delivered to such Lender by or on behalf of the Company or any of its Subsidiaries pursuant to this Agreement or which has been delivered to such Lender by or on behalf of the Company or any of its Subsidiaries in connection with such Lender's credit evaluation of the Company and its Subsidiaries and Affiliates prior to becoming a party to this Agreement.

(g) For avoidance of doubt, the parties to this Agreement acknowledge that the provisions of this Section concerning assignments of Loans and Notes relate only to absolute assignments and that such provisions do not prohibit assignments creating security interests, including, without limitation, any pledge or assignment by a Lender of any Loan or Note to any Federal Reserve Bank or any other central bank in accordance with applicable law.

9.7 Adjustments; Set-off. (a) If any Lender (a "Benefitted Lender") shall at any time receive any payment of all or part of its Loans, or interest thereon, or receive any collateral in respect thereof (whether voluntarily or involuntarily, by set-off, pursuant to events or proceedings of the nature referred to in Section 7(f), or otherwise), in a greater proportion than any such payment to or collateral received by any other Lender, if any, in respect of such other Lender's Loans, or interest thereon, such Benefitted Lender shall purchase for cash from the other Lenders a participating interest in such portion of each such other Lender's Loan, or shall provide such other Lenders with the benefits of any such collateral, or the proceeds thereof, as shall be necessary to cause such Benefitted Lender to share the excess payment or benefits of such collateral or proceeds ratably with each of the Lenders; provided, however, that if all or any portion of such excess payment or benefits is thereafter recovered from such Benefitted Lender, such purchase shall be rescinded, and the purchase price and benefits returned, to the extent of such recovery, but without interest.

(b) In addition to any rights and remedies of the Lenders provided by law, each Lender shall have the right, without prior notice to the Company or any Subsidiary Borrower, any such notice being expressly waived by each of them to the extent permitted by applicable law, upon any amount becoming due and payable by any Borrower hereunder (whether at stated maturity, by acceleration or otherwise) to set off and appropriate and apply against such amount any and all deposits (general or special, time or demand, provisional or

final), in any currency, and any other credits, indebtedness or claims, in any currency, in each case whether direct or indirect, absolute or contingent, matured or unmatured, at any time held or owing by such Lender or any branch or agency thereof to or for the credit or the account of the Company or such relevant Borrower; provided that no such set-off and application may be made against amounts attributable to the clearing and settlement services provided by the Company and its Subsidiaries. Each Lender agrees promptly to notify the Company and the Managing Administrative Agent after any such set-off and application made by such Lender, provided that the failure to give such notice shall not affect the validity of such set-off and application.

9.8 Counterparts. This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts (including by facsimile transmission), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

9.9 Severability. Any provision of this Agreement which is prohibited or unenforceable in any jurisdiction shall, as to such jurisdiction, be ineffective to the extent of such prohibition or unenforceability without invalidating the remaining provisions hereof, and any such prohibition or unenforceability in any jurisdiction shall not invalidate or render unenforceable such provision in any other jurisdiction.

9.10 Integration. This Agreement and the other Loan Documents represent the entire agreement of the Borrowers, the Managing Administrative Agent and the Lenders with respect to the subject matter hereof, and there are no promises, undertakings, representations or warranties by the Managing Administrative Agent or any Lender relative to subject matter hereof not expressly set forth or referred to herein or in the other Loan Documents.

9.11 Termination of Commitments and Swing Line Commitments. The Commitments and Swing Line Commitments shall terminate if the conditions to closing set forth in Section 4.1 shall not be satisfied on or before November 22, 2022.

**9.12 GOVERNING LAW. THIS AGREEMENT AND THE RIGHTS AND OBLIGATIONS OF THE PARTIES HEREUNDER SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.**

9.13 Submission To Jurisdiction; Waivers. The Company and each Subsidiary Borrower hereby irrevocably and unconditionally:

(a) submits for itself and its property in any legal action or proceeding relating to this Agreement and the other Loan Documents, or for recognition and enforcement of any judgment in respect thereof, to the exclusive general jurisdiction of the courts of the State and County of New York, the courts of the United States for the Southern District of New York sitting in the County of New York, in each case, and appellate courts from any thereof;

(b) consents that any such action or proceeding may be brought in such courts and waives any objection that it may now or hereafter have to the venue of any such action or



proceeding in any such court or that such action or proceeding was brought in an inconvenient court and agrees not to plead or claim the same;

(c) agrees that service of process in any such action or proceeding may be effected by mailing a copy thereof by registered or certified mail (or any substantially similar form of mail), postage prepaid, to it at its address set forth in Section 9.2 or at such other address of which the Managing Administrative Agent shall have been notified pursuant thereto;

(d) agrees that nothing herein shall affect the right to effect service of process in any other manner permitted by law or shall limit the right to sue in any other jurisdiction; and

(e) waives, to the maximum extent not prohibited by law, any right it may have to claim or recover in any legal action or proceeding referred to in this Section any special, indirect, punitive or consequential damages.

(f) Each Non-U.S. Subsidiary Borrower irrevocably designates and appoints the Company as its authorized agent, to accept and acknowledge on its behalf, service of any and all process which may be served in any suit, action or proceeding of the nature referred to in paragraph (b) of this Section in any court referred to therein. The Company hereby agrees to accept such appointment by each Subsidiary Borrower party hereto from time to time and to give such Subsidiary Borrower prompt notice upon receipt of, and to forward promptly to such Subsidiary Borrower, all papers served upon the Company pursuant to such appointment. Such designation and appointment shall be irrevocable by each Subsidiary Borrower until such Subsidiary Borrower shall have been terminated as a Borrower hereunder pursuant to Section 2.23(c). If the Company shall cease so to act as such agent, each such Subsidiary Borrower covenants and agrees to notify the Managing Administrative Agent promptly thereof and to designate irrevocably and appoint without delay another such agent satisfactory to the Managing Administrative Agent and to deliver promptly to the Managing Administrative Agent evidence in writing of such other agent's acceptance of such appointment.

9.14 Acknowledgements. The Company and each Subsidiary Borrower hereby acknowledges that:

(a) it has been advised by counsel in the negotiation, execution and delivery of this Agreement and the other Loan Documents;

(b) neither the Managing Administrative Agent nor any Lender has any fiduciary relationship with or duty to it arising out of or in connection with this Agreement or any of the other Loan Documents, and the relationship between Managing Administrative Agent and Lenders, on one hand, and the Borrowers, on the other hand, in connection herewith or therewith is solely that of debtor and creditor;

(c) no joint venture is created hereby or by the other Loan Documents or otherwise exists by virtue of the transactions contemplated hereby among the Lenders or among the Borrowers and the Lenders; and

(d) the Managing Administrative Agent, the Administrative Agent, each Lender, each Swing Line Lender and each of their respective Affiliates may have conflicting economic interests with those of the Borrower, its stockholders, its Subsidiaries and each of their respective Affiliates.

**9.15 WAIVERS OF JURY TRIAL. EACH OBLIGOR, THE MANAGING ADMINISTRATIVE AGENT AND THE LENDERS HEREBY IRREVOCABLY AND UNCONDITIONALLY WAIVE TRIAL BY JURY IN ANY LEGAL ACTION OR PROCEEDING RELATING TO THIS AGREEMENT OR ANY OTHER LOAN DOCUMENT AND FOR ANY COUNTERCLAIM THEREIN.**

9.16 Waiver of Immunity. To the fullest extent permitted by applicable law, to the extent that any Non-U.S. Subsidiary Borrower may be or become entitled to claim for itself or its property any immunity on the ground of sovereignty or the like from suit, court jurisdiction, attachment prior to judgment, attachment in aid of execution of a judgment or execution of a judgment, and to the extent that in any such jurisdiction there may be attributed such an immunity (whether or not claimed), such Non-U.S. Subsidiary Borrower hereby irrevocably agrees not to claim and hereby irrevocably waives such immunity with respect to its obligations under this Agreement.

9.17 Judgment Currency. This is an international loan transaction in which the specification of Dollars or any Foreign Currency, as the case may be (the "Specified Currency"), and payment in New York City or the country of the Specified Currency, as the case may be (the "Specified Place"), is of the essence. The payment obligations of the Borrowers under this Agreement in any Specified Currency shall not be discharged or satisfied by an amount paid in another currency or in another place, whether pursuant to a judgment or otherwise, to the extent that the amount so paid on conversion to the Specified Currency and transfer to the Specified Place under normal banking procedures does not yield the amount of the Specified Currency at the Specified Place due hereunder. If for the purpose of obtaining judgment in any court it is necessary to convert a sum due hereunder in the Specified Currency into another currency (the "Second Currency"), the rate of exchange that shall be applied shall be the rate at which in accordance with normal banking procedures the Managing Administrative Agent could purchase the Specified Currency with the Second Currency on the Business Day next preceding the day on which such judgment is rendered. The obligation of each Borrower in respect of any such sum due from it to the Managing Administrative Agent or any Lender hereunder (in this Section called an "Entitled Person") shall, notwithstanding the rate of exchange actually applied in rendering such judgment, be discharged only to the extent that on the Business Day following receipt by such Entitled Person of any sum adjudged to be due hereunder in the Second Currency such Entitled Person may in accordance with normal banking procedures purchase and transfer to the Specified Place the Specified Currency with the amount of the Second Currency so adjudged to be due; and each Borrower hereby, as a separate obligation and notwithstanding any such judgment, agrees to indemnify such Entitled Person against, and to pay such Entitled Person on demand, in the Specified Currency, the amount (if any) by which the sum originally due to such Entitled Person in the Specified Currency hereunder exceeds the amount of the Specified Currency so purchased and transferred.

9.18 Confidentiality. Neither the Managing Administrative Agent nor any Lender shall disclose any Confidential Information to any Person without the consent of the Company, other than (a) to the Managing Administrative Agent's or such Lender's Affiliates and the Managing Administrative Agent's, such Lender's and their respective Affiliates' officers, directors, employees, agents, advisors, consultants and service providers on a confidential basis, (b) to actual or prospective assignees and participants, (c) to any direct or indirect contractual counterparties (or the professional advisors thereto) to any swap transaction relating to the Company and its obligations under this Agreement so long as such counterparties agree to comply with confidentiality requirements at least as strict as the requirements of this Section for the benefit of the Company (with notice of such compliance given to the Company), (d) to the extent required by any applicable law, rule or regulation or judicial process, (e) to any rating agency or self-regulatory body when required by it, (f) to any other party hereto, (g) in connection with the exercise of any remedies hereunder, (h) as requested or required by any state, federal or foreign authority or examiner regulating banks or other financial institutions or banking, (i) with the prior written consent of the Company and (j) to the extent such Confidential Information (1) becomes publicly available other than as a result of a breach of this Section or (2) becomes available to any Lender or Managing Administrative Agent or any of their respective Affiliates on a nonconfidential basis from a source other than the Company, which source is not known to such Lender, Managing Administrative Agent or any of their respective Affiliates to be otherwise bound by a confidentiality agreement with the Company or its Affiliates. In addition, the Managing Administrative Agent, the Administrative Agent and the Lenders may disclose the existence of this Agreement and information about this Agreement to market data collectors, similar service providers to the lending industry and service providers to the Managing Administrative Agent, the Administrative Agent and the Lenders in connection with the administration of this Agreement, the other Loan Documents, and the Commitments; provided that such information is limited to the existence of this Agreement, the other Loan Documents and generic information about the Commitments.

9.19 USA PATRIOT Act. Each Lender and the Managing Administrative Agent (for itself and not on behalf of any Lender) hereby notifies the Company and each Subsidiary Borrower that pursuant to the requirements of the USA PATRIOT Act (Title III of Pub. L. 107-56 (signed into law October 26, 2001)) (the "Act"), it is required to obtain, verify and record information that identifies each Borrower, which information includes the name and address of such Borrower and other information that will allow such Lender or the Managing Administrative Agent, as applicable, to identify such Borrower in accordance with the Act. Each Borrower shall, promptly following a request by the Managing Administrative Agent or any Lender, provide all documentation and other information that the Managing Administrative Agent or such Lender requests in order to comply with its ongoing obligations under applicable "know your customer" and anti-money laundering rules and regulations, including the Act.

9.20 Termination of Agreement. Upon termination of the Commitments, the repayment in full of the principal of all Loans outstanding hereunder and the payment in full of all accrued interest and fees and any other amounts then due and payable hereunder, this Agreement shall terminate except for the provisions which expressly survive the termination of this Agreement.

9.21 Acknowledgment and Consent to Bail-In of Financial Institutions. Notwithstanding anything to the contrary in any Loan Document or in any other agreement, arrangement or understanding among any such parties, each party hereto acknowledges that any liability of any Financial Institution arising under any Loan Document, to the extent such liability is unsecured, may be subject to the write-down and conversion powers of the applicable Resolution Authority and agrees and consents to, and acknowledges and agrees to be bound by:

- (a) the application of any Write-Down and Conversion Powers by the applicable Resolution Authority to any such liabilities arising hereunder which may be payable to it by any party hereto that is a Financial Institution; and
- (b) the effects of any Bail-In Action on any such liability, including, if applicable:
  - (i) a reduction in full or in part or cancellation of any such liability;
  - (ii) a conversion of all, or a portion of, such liability into shares or other instruments of ownership in such Financial Institution, its parent undertaking, or a bridge institution that may be issued to it or otherwise conferred on it, and that such shares or other instruments of ownership will be accepted by it in lieu of any rights with respect to any such liability under this Agreement or any other Loan Document; or
  - (iii) the variation of the terms of such liability in connection with the exercise of the write-down and conversion powers of the applicable Resolution Authority.

9.22 Interest Rate Limitation. Notwithstanding anything herein to the contrary, if at any time the interest rate applicable to any Loan or other obligation owing under this Agreement, together with all fees, charges and other amounts that are treated as interest on such Loan or other obligation under applicable law (collectively, “Charges”), shall exceed the maximum lawful rate (the “Maximum Rate”) that may be contracted for, charged, taken, received or reserved by the Lender or other Person holding such Loan or other obligation in accordance with applicable law, the rate of interest payable in respect of such Loan or other obligation hereunder, together with all Charges payable in respect thereof, shall be limited to the Maximum Rate. To the extent lawful, the interest and Charges that would have been paid in respect of such Loan or other obligation but were not paid as a result of the operation of this Section 9.22 shall be cumulated and the interest and Charges payable to such Lender or other Person in respect of other Loans or obligations or periods shall be increased (but not above the amount collectible at the Maximum Rate therefor) until such cumulated amount, together with interest thereon at the Federal Funds Rate for each day to the date of repayment, shall have been received by such Lender or other Person. Any amount collected by such Lender or other Person that exceeds the maximum amount collectible at the Maximum Rate shall be applied to the reduction of the principal balance of such Loan or other obligation or refunded to the Borrower so that at no time shall the interest and Charges paid or payable in respect of such Loan or other obligation exceed the maximum amount collectible at the Maximum Rate.

## SECTION 10. GUARANTEE

10.1 **Guarantee.** The Company (for purposes of this Section 10, the “Guarantor”) hereby guarantees to each Lender, each Swing Line Lender and the Managing Administrative Agent and their respective successors and assigns the prompt payment in full when due (whether by acceleration or otherwise) of the principal of and interest on the Loans made by the Lenders to each Subsidiary Borrower, and all other amounts from time to time owing to the Lenders or the Managing Administrative Agent by each Subsidiary Borrower under this Agreement and the other Loan Documents, in each case strictly in accordance with the terms thereof (such obligations being herein collectively called the “Guaranteed Obligations”). The Guarantor hereby further agrees that if any Subsidiary Borrower shall fail to pay in full when due (whether by acceleration or otherwise) any of the Guaranteed Obligations, the Guarantor will promptly pay the same, without any demand or notice whatsoever, and that in the case of any extension of time of payment or renewal of any of the Guaranteed Obligations, the same will be promptly paid in full when due (whether by acceleration or otherwise) in accordance with the terms of such extension or renewal. The Guarantor agrees that this guarantee is a guarantee of payment and not of collection.

10.2 **Obligations Unconditional.** The obligations of the Guarantor under Section 10.1 are absolute, unconditional and irrevocable, irrespective of the value, genuineness, validity, regularity or enforceability of the obligations of any Subsidiary Borrower under this Agreement, the other Loan Documents or any other agreement or instrument referred to herein, or any substitution, release or exchange of any other guarantee of or security for any of the Guaranteed Obligations, and, to the fullest extent permitted by applicable law, irrespective of any other circumstance whatsoever that might otherwise constitute a legal or equitable discharge or defense of a surety or guarantor, it being the intent of this Section 10 that the obligations of the Guarantor hereunder shall be absolute, unconditional and irrevocable under any and all circumstances. Notwithstanding the foregoing, the liability of the Guarantor with respect to the Guaranteed Obligations shall be limited to an aggregate amount equal to the largest amount that would not render its obligations hereunder subject to avoidance under Section 548 of the United States Bankruptcy Code or any comparable provisions of any applicable state law. Without limiting the generality of the foregoing, it is agreed that, to the fullest extent permitted by applicable law, the occurrence of any one or more of the following shall not alter or impair the liability of the Guarantor hereunder, which shall remain absolute and unconditional as described above:

(i) at any time or from time to time, without notice to the Guarantor, the time for any performance of or compliance with any of the Guaranteed Obligations shall be extended, or such performance or compliance shall be waived;

(ii) any of the acts mentioned in any of the provisions of this Agreement or any other agreement or instrument referred to herein shall be done or omitted; or

(iii) the maturity of any of the Guaranteed Obligations shall be accelerated, or any of the Guaranteed Obligations shall be modified, supplemented or amended in any respect, or any right under this Agreement or any other agreement or instrument referred

to herein shall be waived or any other guarantee of any of the Guaranteed Obligations or any security therefor shall be released or exchanged in whole or in part or otherwise dealt with.

The Guarantor, to the fullest extent permitted by applicable law, hereby expressly waives diligence, presentment, demand of payment, protest and all notices whatsoever, and any requirement that the Managing Administrative Agent or any Lender exhaust any right, power or remedy or proceed against any Subsidiary Borrower under this Agreement or any other agreement or instrument referred to herein, or against any other Person under any other guarantee of, or security for, any of the Guaranteed Obligations.

10.3 Reinstatement. The obligations of the Guarantor under this Section 10 shall be automatically reinstated if and to the extent that for any reason any payment by or on behalf of any Subsidiary Borrower in respect of the Guaranteed Obligations is rescinded or must be otherwise restored by any holder of any of the Guaranteed Obligations, whether as a result of any proceedings in bankruptcy or reorganization or otherwise, and the Guarantor agrees that it will indemnify the Managing Administrative Agent and each Lender on demand for all reasonable costs and expenses (including reasonable fees of counsel) incurred by the Managing Administrative Agent or such Lender in connection with such rescission or restoration pursuant to the terms of the indemnity set forth in Section 9.5.

10.4 Subrogation. The Guarantor hereby agrees that until the payment and satisfaction in full of all Guaranteed Obligations and the expiration and termination of the Commitments of the Lenders under this Agreement it shall not exercise any right or remedy arising by reason of any performance by it of its guarantee in Section 10.1, whether by subrogation or otherwise, against any Subsidiary Borrower or any other guarantor of any of the Guaranteed Obligations or any security for any of the Guaranteed Obligations.

10.5 Remedies. The Guarantor agrees that, to the fullest extent permitted by applicable law, as between the Guarantor on the one hand and the Managing Administrative Agent and the Lenders on the other, the obligations of any Subsidiary Borrower under this Agreement may be declared to be forthwith due and payable as provided in Section 7 (and shall be deemed to have become automatically due and payable in the circumstances provided in Section 7) for purposes of Section 10.1 notwithstanding any stay, injunction or other prohibition preventing such declaration (or such obligations from becoming automatically due and payable) as against any Subsidiary Borrower and that, in the event of such declaration (or such obligations being deemed to have become automatically due and payable), such obligations (whether or not due and payable by such Subsidiary Borrower) shall forthwith become due and payable by the Guarantor for purposes of Section 10.1.

10.6 Continuing Guarantee. The guarantee in this Section 10 is a continuing guarantee, and shall apply to all Guaranteed Obligations whenever arising until the expiration or termination of the Commitments and payment in full of the principal of and interest on each Loan and all fees and other amounts payable hereunder.

[Signature Pages to Follow]

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be duly executed and delivered by their proper and duly authorized officers as of the day and year first above written.

MASTERCARD INCORPORATED

By: /s/ Vivian Zhou

Name: Vivian Zhou

Title: Corporate Treasurer

CITIBANK, N.A.,  
as Managing Administrative Agent and as Lender

By: /s/ Maureen Maroney

Name: Maureen Maroney

Title: Vice President



JPMORGAN CHASE BANK N.A.,  
as Administrative Agent and as Lender

By: /s/ David Kister

Name: David Kister

Title: Authorized Officer

Bank of China, New York Branch,  
as Lender

By: /s/ Raymond Qiao

Name: Raymond Qiao

Title: Executive Vice President

DEUTSCHE BANK AG NEW YORK BRANCH,  
as Lender

By: /s/ Ming K. Chu

Name: Ming K. Chu

Title: Director

By: /s/ Marko Lukin

Name: Marko Lukin

Title: Vice President

U.S. BANK NATIONAL ASSOCIATION,  
as Lender

By: /s/ Matt S. Scullin

Name: Matt S. Scullin

Title: Senior Vice President

Bank of America N.A., as a Lender

By: /s/ Sidhima Daruka

Name: Sidhima Daruka

Title: Director

WELLS FARGO BANK, NATIONAL ASSOCIATION,  
as Lender

By: /s/ Derek Jensen

Name: Derek Jensen

Title: Vice President

**LLOYDS BANK CORPORATE MARKETS PLC.,**  
as Lender

By: /s/ Allen McGuire

Name: Allen McGuire

Title: Assistant Vice President

By: /s/ Kamala Basdeo

Name: Kamala Basdeo

Title: Assistant Vice President

**BARCLAYS BANK PLC,**  
as Lender

By: /s/ Pearl Mathew

Name: Pearl Mathew

Title: Director / Authorized Signatory



Commerzbank AG, New York Branch,  
as Lender

By: /s/ Leonard Meyer

Name: Leonard Meyer

Title: Assistant Vice President

By: /s/ Toan B. Chu

Name: Toan B. Chu

Title: Vice President

CREDIT AGRICOLE CORPORATE AND INVESTMENT BANK, as  
Lender

By: /s/ Andrew Sidford

Name: Andrew Sidford

Title: Managing Director

By: /s/ Gordon Yip

Name: Gordon Yip

Title: Director

GOLDMAN SACHS BANK USA,  
as Lender

By: /s/ Ananda DeRoche

Name: Ananda DeRoche

Title: Authorized Signatory

HSBC BANK USA, NATIONAL ASSOCIATION, as Lender

By: /s/ James C Stovell

Name: James C Stovell

Title: Director

INDUSTRIAL AND COMMERCIAL BANK OF CHINA  
LIMITED, NEW YORK BRANCH,  
as Lender

By: /s/ Chit Lam

Name: Chit Lam

Title: Vice President

By: /s/ Haiyao Su

Name: Haiyao Su

Title: Executive Director

MIZUHO BANK, LTD.,  
as Lender

By: /s/ Donna DeMagistris

Name: Donna DeMagistris

Title: Executive Director

**MORGAN STANLEY BANK, N.A.,**  
as Lender

By: /s/ Michael King

Name: Michael King

Title: Authorized Signatory

MUFG Bank, Ltd.,  
as Lender

By: /s/ Jacob Ulevich

Name: Jacob Ulevich

Title: Director



NATIONAL WESTMINSTER BANK PLC,  
as Lender

By: /s/ A. Maltby

Name: A. Maltby

Title: Director

PNC Bank, National Association,  
as Lender

By: /s/ Robert M. Martin

Name: Robert M. Martin

Title: Senior Vice President

Santander Bank, N.A.,  
as Lender

By: /s/ Marco Antonio Achón

Name: Marco Antonio Achón

Title: Authorized signatory

SOCIETE GENERALE,  
as Lender

By: /s/ Jonathan Weinberger

Name: Jonathan Weinberger

Title: Managing Director

Bank of Montreal,  
as Lender

By: /s/ Chris Clark

Name: Chris Clark

Title: Managing Director

Citizens Bank, N.A.,  
as Lender

By: /s/ Michael DeVivo

Name: Michael DeVivo

Title: Vice President

Commonwealth Bank of Australia  
as Lender

By: /s/ Kathryn Kouzinas

Name: Kathryn Kouzinas

Title: Director

STANDARD CHARTERED BANK,  
as Lender

By: /s/ Kristopher Tracy

Name: Kristopher Tracy

Title: Director, Financing Solutions



**MATERIAL LITIGATION**

None.

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**MATERIAL SUBSIDIARIES**

<b>Name</b>	<b>Jurisdiction</b>
Global Mastercard Holdings LP	United Kingdom
Mastercard A&M Investment Holdings, LLC	Delaware
Mastercard Asia/Pacific Pte. Ltd.	Singapore
Mastercard/Europay U.K. Limited	United Kingdom
Mastercard Europe SA	Belgium
Mastercard AP Financing Pte. Ltd.	Singapore
Mastercard Financing Solutions LLC	Delaware
Mastercard Holdings LP	United Kingdom
Mastercard International Incorporated	Delaware
Mastercard Payment Gateway Services Group Limited	United Kingdom
Mastercard UK Holdco Limited	United Kingdom
Mastercard US Holdings LLC	Delaware

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SCHEDULE 6.2(f)

EXISTING LIENS

	Debtor	Secured Party	Filing Jurisdiction	Filing Number Filing Date	Collateral Description/Comments
1.	Mastercard Incorporated	U.S. Bank Equipment Finance	New York	UCC-1 20200630646974 06/30/2020	Equipment Lien

**[FORM OF REVOLVING CREDIT NOTE]**

**THIS NOTE MAY NOT BE TRANSFERRED EXCEPT IN COMPLIANCE WITH THE TERMS AND PROVISIONS OF THE CREDIT AGREEMENT REFERRED TO BELOW. TRANSFERS OF THIS NOTE (OTHER THAN PLEDGES OR ASSIGNMENTS HEREOF TO ANY FEDERAL RESERVE BANK) MUST BE RECORDED IN THE REGISTER MAINTAINED BY THE MANAGING ADMINISTRATIVE AGENT PURSUANT TO THE TERMS OF SUCH CREDIT AGREEMENT.**

**REVOLVING CREDIT NOTE**

[\$][€] \_\_\_\_\_ New York, New York

\_\_\_\_\_, 20\_\_

FOR VALUE RECEIVED, the undersigned, [MASTERCARD INCORPORATED, a Delaware corporation (the “Company.”)], [[Name of Subsidiary Borrower], a [Jurisdiction] [Organization] (the “Borrower”)], hereby unconditionally promises to pay in immediately available funds and in the respective Currencies in which such Revolving Credit Loans are denominated, on the Revolving Credit Termination Date the aggregate unpaid principal amount of all Revolving Credit Loans made by \_\_\_\_\_ (the “Lender”) to the [Company][Borrower] into the Managing Administrative Agent’s Account, in the applicable Currency and in immediately available funds, on the Revolving Credit Termination Date the principal amount of \_\_\_\_\_ [DOLLARS][EUROS] ([\$][€] \_\_\_\_\_), or, if less, the aggregate unpaid principal amount of all Revolving Credit Loans made by the Lender to the [Company][Borrower] pursuant to Section 2.1 of the Credit Agreement (as defined below). The [Company][Borrower] further agrees to pay interest in like money at such office on the unpaid principal amount of Revolving Credit Loans made by the Lender from time to time outstanding at the rates and on the dates specified in the Credit Agreement.

The holder of this Note is authorized to record on Schedule A annexed hereto and made a part hereof or on a continuation thereof which shall be attached hereto and made a part hereof the date, Type, Currency and amount of each Revolving Credit Loan made by the Lender and the date and amount of each payment or prepayment of principal thereof, each conversion of all or a portion thereof to another Type, each continuation of all or a portion thereof as the same Type and, (x) in the case of SOFR Loans, the length of each Interest Period and the Adjusted Term SOFR with respect thereto and (y) in the case of EURIBO Loans, the length of each Interest Period and the EURIBO Rate with respect thereto. Each such recordation shall, to the extent permitted by applicable law, constitute conclusive evidence (absent manifest error) of the accuracy of the information so recorded, provided that the failure to make any such recordation shall not affect the obligation of the [Company][Borrower] to repay (with applicable interest) Revolving Credit Loans made by the Lender pursuant to the Credit Agreement.

This Note (a) is one of the Revolving Credit Notes referred to in the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, or amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Mastercard Incorporated, the Subsidiary Borrowers from time to time parties thereto, the Lenders, the other banks and financial institutions from time to time parties thereto, Citibank, N.A., as Managing Administrative Agent and JPMorgan Chase Bank,

N.A., as Administrative Agent, (b) is subject to the provisions of the Credit Agreement and (c) is subject to optional and mandatory prepayment in whole or in part as provided in the Credit Agreement.

Upon the occurrence of any one or more of the Events of Default, all amounts then remaining unpaid on this Note shall become, or may be declared to be, immediately due and payable, all as provided in the Credit Agreement.

All parties now and hereafter liable with respect to this Note, whether maker, principal, surety, guarantor, endorser or otherwise, hereby waive presentment, demand, protest and all other notices of any kind.

Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

**THIS NOTE SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.**

[MASTERCARD INCORPORATED][NAME OF SUBSIDIARY BORROWER]

By: \_\_\_\_\_  
Name:  
Title:

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**Schedule A**  
**to Revolving Credit Note**

**LOANS, CONTINUATIONS, CONVERSIONS AND REPAYMENTS OF SOFR LOANS**

Date	Amount of SOFR Loans	Amount Converted to or Continued as SOFR Loans	Interest Period and Adjusted Term SOFR with Respect Thereto	Amount of Principal of SOFR Loans Repaid	Amount of SOFR Loans Converted to ABR Loans	Unpaid Principal Balance of SOFR Loans	Notation Made By

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LOANS, CONTINUATIONS, CONVERSIONS AND REPAYMENTS OF EURIBO LOANS

Date	Amount of EURIBO Loans	Amount Continued as EURIBO Loans	Interest Period and EURIBO Rate with Respect Thereto	Amount of Principal of EURIBO Loans Repaid	Unpaid Principal Balance of EURIBO Loans	Notation Made By

**[FORM OF SWING LINE NOTE]**

**THIS NOTE MAY NOT BE TRANSFERRED EXCEPT IN COMPLIANCE WITH THE TERMS AND PROVISIONS OF THE CREDIT AGREEMENT REFERRED TO BELOW. TRANSFERS OF THIS NOTE (OTHER THAN PLEDGES OR ASSIGNMENTS HEREOF TO ANY FEDERAL RESERVE BANK) MUST BE RECORDED IN THE REGISTER MAINTAINED BY THE MANAGING ADMINISTRATIVE AGENT PURSUANT TO THE TERMS OF SUCH CREDIT AGREEMENT.**

**SWING LINE NOTE**

\$ \_\_\_\_\_ New York, New York

\_\_\_\_\_, 20\_\_

FOR VALUE RECEIVED, the undersigned, MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), hereby unconditionally promises to pay [CITIBANK, N.A.] / [•] (the “Swing Line Lender”), at its office located at [\_\_\_\_], in lawful money of the United States and in immediately available funds, on the Revolving Credit Termination Date, the principal amount of \_\_\_\_\_ DOLLARS (\$) or, if less, the aggregate unpaid principal amount of the Swing Line Loans made by the Swing Line Lender to the Company pursuant to Section 2.13 of the Credit Agreement (as defined below). The Company further agrees to pay interest in like money at said office on the unpaid principal amount of Swing Line Loans from time to time outstanding at the rates and on the dates specified in the Credit Agreement.

The Swing Line Lender is authorized to record the date and the amount of each Swing Line Loan made by the Swing Line Lender to the Company pursuant to Section 2.13 of the Credit Agreement and the date and amount of each payment or prepayment of principal thereof on Schedule A annexed hereto and made a part hereof and any such recordation shall, to the extent permitted by applicable law, constitute conclusive evidence (absent manifest error) of the accuracy of the information so recorded, provided that any failure by the Swing Line Lender to make such recordation shall not affect the obligation of the Company to repay (with applicable interest) the Swing Line Loans made by the Swing Line Lender pursuant to the Credit Agreement.

This Note (a) is one of the Swing Line Notes referred to in the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among the Company, the Subsidiary Borrowers from time to time parties thereto, the Swing Line Lender, the other banks and financial institutions from time to time parties thereto, Citibank, N.A., as Managing Administrative Agent and JPMorgan Chase Bank, N.A., as Administrative Agent, (b) is subject to the provisions of the Credit Agreement and (c) is subject to optional and mandatory prepayment in whole or in part as provided in the Credit Agreement.



Upon the occurrence of any one or more of the Events of Default, all amounts then remaining unpaid on this Note shall become, or may be declared to be, immediately due and payable, all as provided in the Credit Agreement.

All parties now and hereafter liable with respect to this Note, whether maker, principal, surety, guarantor, endorser or otherwise, hereby waive presentment, demand, protest and all other notices of any kind.

Unless otherwise defined herein terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

**THIS NOTE SHALL BE GOVERNED BY, AND CONSTRUED AND INTERPRETED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.**

MASTERCARD INCORPORATED

By: \_\_\_\_\_  
Name:  
Title:

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LOANS AND REPAYMENTS

Date	Amount of Swing Line Loans Made	Amount of Swing Line Loans Repaid	Unpaid Principal Balance of Swing Line Loans	Notation Made By

**[FORM OF CLOSING CERTIFICATE]****MASTERCARD INCORPORATED - 2022 FOURTH AMENDED AND RESTATED CREDIT AGREEMENT****CLOSING CERTIFICATE****AS OF NOVEMBER [10], 2022**

Pursuant to subsections 4.1 (b), 4.1(c), 4.1(d) and 4.1(e) of the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Mastercard Incorporated, a Delaware corporation the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the “Lenders”), Citibank, N.A., as Managing Administrative Agent for the Lenders, JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders, the undersigned, the Corporate Treasurer of Company, hereby certifies as follows:

1. The representations and warranties of the Company set forth in the Credit Agreement and each of the other Loan Documents are true and correct in all material respects (except that such representations and warranties that are qualified as to materiality are true and correct in all respects) on and as of the date hereof as if made on and as of the date hereof, except for representations and warranties expressly stated to relate to a specific earlier date, in which case such representations and warranties were true and correct as of such earlier date;

2. No Default or Event of Default has occurred and is continuing as of the date hereof or will occur after giving effect to the making of the Loans on the date hereof or the consummation of each of the transactions contemplated by the Loan Documents; and

3. Craig Brown is and at all times since November 20, 2007, has been the duly elected and qualified Assistant Corporate Secretary of the Company and the signature set forth on the signature line for such officer below is such officer’s true and genuine signature and such officer is duly authorized to execute and deliver on behalf of the Company, this certificate;

and the undersigned Assistant Corporate Secretary of the Company hereby certifies as follows:

4. The Company is a corporation duly incorporated, validly existing and in good standing under the laws of Delaware and attached hereto as Exhibit A is a certificate issued by the Secretary of State of the State of Delaware certifying as to the good standing of the Company;

5. (i) Attached hereto as Exhibit B is a true and complete copy of resolutions duly adopted by the Board of Directors of the Company on September 19, 2022,

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approving and authorizing the execution, delivery and performance of the Credit Agreement and the other Loan Documents (all in compliance with the description and indicative terms of the Future Credit Facility as set forth in the Credit Facility Presentation, as these terms are referred to therein); such resolutions have not in any way been amended, modified, revoked or rescinded and have been in full force and effect since their adoption to and including the date hereof and are now in full force and effect; such resolutions are the only corporate proceedings of the Company now in force relating to or affecting the matters referred to therein;

(ii) [attached hereto as Exhibit C is a true and complete copy of the by-laws of the Company as amended or restated on or prior to the date hereof and as in effect at all times since September 29, 2016, to and including the date hereof; and]

(iii) [attached hereto as Exhibit D is a true and complete copy of the certificate of incorporation of the Company, as amended or restated on or prior to the date hereof and as in effect at all times since September 29, 2016, to and including the date hereof; and]

6. The following person is now a duly elected and qualified officer of the Company, holding the office indicated next to his name below, and such officer has held such office with the Company at all times since August 15<sup>th</sup>, 2022, to and including the date hereof, and the signature appearing opposite her name below is the true and genuine signature of such officer, and such officer is duly authorized to execute and deliver on behalf of the Company, the Credit Agreement and the other Loan Documents and any certificate or other document to be delivered by the Company pursuant to the Credit Agreement or any such Loan Document:

Name   Office   Signature

Vivian Zhou   Corporate Treasurer   \_\_\_\_\_

Unless otherwise defined herein, capitalized terms which are defined in the Credit Agreement and used herein are so used as so defined.

*[remainder of page intentionally blank]*

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IN WITNESS WHEREOF, the undersigned have hereunto set our names as of the date first set forth above.

MASTERCARD INCORPORATED

By: \_\_\_\_\_  
Name: Vivian Zhou  
Title: Corporate Treasurer

By: \_\_\_\_\_  
Name: Craig Brown  
Title: Assistant Corporate Secretary

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[FORM OF SWING LINE LOAN PARTICIPATION CERTIFICATE]

SWING LINE LOAN PARTICIPATION CERTIFICATE

\_\_\_\_\_, 20\_\_

[Name of Lender]

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ladies and Gentlemen:

Pursuant to subsection 2.13(e) of the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”; unless otherwise defined herein, terms defined in the Credit Agreement are used herein as therein defined), among Mastercard Incorporated, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the “Lenders”), Citibank, N.A., as Managing Administrative Agent for the Lenders thereunder (in such capacity, the “Managing Administrative Agent”), and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders thereunder (in such capacity, the “Administrative Agent”), the undersigned, as Swing Line Lender under the Credit Agreement, hereby acknowledges receipt from you on the date hereof of \_\_\_\_\_ DOLLARS (\$\_\_\_\_) as payment for a participating interest in the following Swing Line Loan:

Date of Swing Line Loan: \_\_\_\_\_

Principal Amount of Swing Line Loan  
Participating Interest: \$ \_\_\_\_\_

Very truly yours,  
[SWING LINE LENDER]

By: \_\_\_\_\_  
Name:  
Title:

\_\_\_\_\_

[FORM OF SUBSIDIARY BORROWER DESIGNATION]

SUBSIDIARY BORROWER DESIGNATION

\_\_\_\_\_, 202\_

Citibank, N.A.,  
as Managing Administrative Agent  
1 Penns Way, OPS II  
New Castle, Delaware 19720  
Attention: \*\*\*\*\*  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*  
Borrower inquiries only: \*\*\*\*\*  
Borrower notifications: \*\*\*\*\*

JPMorgan Chase Bank, N.A.  
JPM-Delaware Loan Operations  
Attention: \*\*\*\*\*  
500 Stanton Christiana Road, Ops 2/3  
Newark, Delaware 19713-2107  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

Re: Subsidiary Borrower Designation

Ladies and Gentlemen:

Reference is made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Mastercard Incorporated, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the “Lenders”), Citibank, N.A., as Managing Administrative Agent for the Lenders (in such capacity, the “Managing Administrative Agent”) and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders (in such capacity, the “Administrative Agent”). Unless otherwise defined herein, capitalized terms used herein have the meanings provided in the Credit Agreement.

The Company hereby designates [\_\_\_\_\_] (the “Subject Subsidiary”), a Subsidiary of the Company and a [corporation] duly organized under the laws of [\_\_\_\_\_] as a Subsidiary Borrower in accordance with Section 2.23(a) of the Credit Agreement until such designation is terminated in accordance with Section 2.23(c) of the Credit Agreement.

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The Subject Subsidiary hereby accepts the above designation and hereby expressly and unconditionally accepts the obligations of a Subsidiary Borrower under the Credit Agreement, adheres to the Credit Agreement and agrees and confirms that, upon your execution and return to the Company of the enclosed copy of this Subsidiary Borrower Designation, it shall be a Subsidiary Borrower for purposes of the Credit Agreement and agrees to be bound by and perform and comply with the terms and provisions of the Credit Agreement applicable to it as if it had originally executed the Credit Agreement as a Subsidiary Borrower.

The Company hereby confirms and agrees that after giving effect to this Subsidiary Borrower Designation the Guarantee of the Company contained in Section 10 of the Credit Agreement shall apply to all of the obligations of the Subject Subsidiary under the Credit Agreement.

The Company and the Subject Subsidiary (as applicable pursuant to Section 3.19) hereby represents and warrants to the Managing Administrative Agent and each Lender that each of the representations and warranties set forth in Section 3 of the Credit Agreement is true and correct in all material respects (or, in the case of any such representations and warranties qualified as to materiality, in all respects) as of the Joinder Effective Date (as defined below).

The Subject Subsidiary's addresses for notices, other communications and service of process provided for in the Credit Agreement shall be given in the manner, and with the effect, specified in Section 9.2 of the Credit Agreement to it at its "Address for Notices" specified on the signature pages below.

The Subject Subsidiary shall deliver to the Administrative Agent the documents and certificates set forth in, or required by, Section 2.23(b) of the Credit Agreement.

The designation of the Subject Subsidiary as a Subsidiary Borrower under the Credit Agreement shall become effective as of the date (the "Joinder Effective Date") on which the Administrative Agent accepts this Subsidiary Borrower Designation as provided on the signature pages below. As of the Joinder Effective Date, the Subject Subsidiary shall be entitled to the rights, and subject to the obligations, of a Subsidiary Borrower. Except as expressly herein provided, the Credit Agreement shall remain unchanged and in full force and effect.

The Subject Subsidiary hereby agrees that this Subsidiary Borrower Designation, the Credit Agreement and the Notes shall be governed by, and construed and interpreted in accordance with, the law of the State of New York. The Subsidiary Borrower hereby irrevocably and unconditionally submits for itself and its property in any legal action or proceeding relating to this Agreement and the other Loan Documents, or for recognition and enforcement of any judgment in respect thereof, to the exclusive general jurisdiction of the courts of the State and County of New York, the courts of the United States for the Southern District of New York, and appellate courts from any thereof, and consents that any such action or proceeding may be brought in such courts and waives any objection that it may now or hereafter have to the venue of any such action or proceeding in any such court or that such action or proceeding was brought in an inconvenient court and agrees not to plead or claim the same. THE SUBJECT SUBSIDIARY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY LEGAL

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PROCEEDING ARISING OUT OF OR RELATING TO THIS SUBSIDIARY BORROWER DESIGNATION, THE CREDIT AGREEMENT OR THE TRANSACTIONS CONTEMPLATED THEREBY.

This Subsidiary Borrower Designation may be executed in any number of counterparts, all of which taken together shall constitute one and the same agreement.

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IN WITNESS WHEREOF, the Company and the Subject Subsidiary have caused this Subsidiary Borrower Designation to be duly executed and delivered as of the day and year first above written.

MASTERCARD INCORPORATED

By: \_\_\_\_\_  
Name:  
Title:

[NAME OF SUBSIDIARY BORROWER]  
a \_\_\_\_\_ [corporation]

By: \_\_\_\_\_  
Name:  
Title:

Address for Notices  
c/o Mastercard Incorporated  
2000 Purchase Street  
Purchase, New York 10577-2509  
Attention: Corporate Treasurer  
Telephone: \*\*\*\*\*

ACCEPTED:

CITIBANK, N.A.,  
as Managing Administrative Agent

By \_\_\_\_\_  
Name:  
Title:

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**[FORM OF SUBSIDIARY BORROWER TERMINATION NOTICE]****SUBSIDIARY BORROWER TERMINATION NOTICE**

[Date]

To: Citibank, N.A. (the "Managing Administrative Agent") and JPMorgan Chase Bank, N.A. (the "Administrative Agent")

From: Mastercard Incorporated (the "Company")

Reference is made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Mastercard Incorporated, a Delaware corporation (the "Company"), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the "Lenders"), Citibank, N.A., as Managing Administrative Agent for the Lenders (in such capacity, the "Managing Administrative Agent") and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders (in such capacity, the "Administrative Agent"). Unless otherwise defined herein, capitalized terms used herein have the meanings provided in the Credit Agreement.

The Company hereby gives notice pursuant to Section 2.23(c) of the Credit Agreement that, effective as of the date hereof, [ ] (the "Subject Subsidiary") is terminated as a Subsidiary Borrower under the Credit Agreement and all commitments by the Lenders to make Loans to such Subsidiary Borrower under the Credit Agreement are hereby terminated.

Pursuant to Section 2.23(c) of the Credit Agreement, the Company hereby certifies that there are no outstanding Loans made to or Letters of Credit for the account of the Subject Subsidiary, or unpaid interest thereon or other amounts owing by the Subject Subsidiary under the Credit Agreement.

All obligations of Subject Subsidiary arising in respect of any period in which Subject Subsidiary was, or on account of any action or inaction taken by Subject Subsidiary as, a Subsidiary Borrower under the Credit Agreement shall survive the termination effected by this notice.

MASTERCARD INCORPORATED

By \_\_\_\_\_  
Name:  
Title:

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**[FORM OF OPINION OF GENERAL COUNSEL OF THE COMPANY]**

Attached

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**[FORM OF OPINION OF SPECIAL NEW YORK COUNSEL TO THE MANAGING ADMINISTRATIVE AGENT]**

Attached

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[FORM OF BORROWING NOTICE]

**BORROWING NOTICE**

Citibank, N.A.,  
as Managing Administrative Agent  
1 Penns Way, OPS II  
New Castle, Delaware 19720  
Attention: \*\*\*\*\*  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*  
Borrower inquiries only: \*\*\*\*\*  
Borrower notifications: \*\*\*\*\*

JPMorgan Chase Bank, N.A.  
JPM-Delaware Loan Operations  
Attention: \*\*\*\*\*  
500 Stanton Christiana Road, Ops 2/3  
Newark, Delaware 19713-2107  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

Dear Sirs:

This Borrowing Notice is delivered to you by the undersigned (the ["Company"] ["Borrower"]) in connection with Section 2.2 of the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Mastercard Incorporated (the "Company"), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the "Lenders"), Citibank, N.A., as Managing Administrative Agent for the Lenders and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders. Unless otherwise defined herein, capitalized terms used herein have the meanings provided in the Credit Agreement.

The [Company][Borrower] hereby requests that Loans be made in the aggregate principal amount of [\$][€] \_\_\_\_\_ on \_\_\_\_\_, 20\_\_\_\_ (the "Borrowing Date"). The [Company][Borrower] requests that such Loans be made as<sup>1</sup> [SOFR Loans in a principal amount of [\$]\_\_\_\_\_ having an initial Interest Period of [\_\_\_\_ months], [EURIBO Loans in a principal

<sup>1</sup> Insert appropriate interest rate option, and, if applicable, interest period. If Loans are to be a combination of SOFR or EURIBO and ABR Loans, specify the respective amounts of each type.

amount of [\$][€]\_\_\_\_\_ having an initial Interest Period of [\_\_\_\_\_ months], [ABR Loans in a principal amount of \$\_\_\_\_\_].  
The [Company][Borrower] requests that the Loans requested be paid into account at [bank].

The Company [and the Borrower (as applicable pursuant to Section 3.19 of the Credit Agreement)] hereby certifies that the representations and warranties contained in Section 3 of the Credit Agreement (excluding the representations and warranties made in Section 3.2 and 3.6) will be true and correct in all material respects (except that such representations and warranties that are qualified as to materiality will be true and correct in all respects) on and as of the Borrowing Date with the same effect as if made on and as of such date both before and after giving effect to the Loans to be made on the Borrowing Date and that no event has occurred or will be continuing on the Borrowing Date, or will result from the making of the Loans to be made on the Borrowing Date, which constitutes a Default or an Event of Default.

IN WITNESS WHEREOF, the [Company][Borrower] has caused this request and certificate to be executed and delivered by its duly authorized officer this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

MASTERCARD INCORPORATED

By: \_\_\_\_\_  
Name:  
Title:

[NAME OF SUBSIDIARY BORROWER]

By: \_\_\_\_\_  
Name:  
Title:

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**[FORM OF ASSIGNMENT AND ACCEPTANCE]****ASSIGNMENT AND ACCEPTANCE**

Reference is made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Mastercard Incorporated, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the “Lenders”), Citibank, N.A., as Managing Administrative Agent for the Lenders (in such capacity, the “Managing Administrative Agent”) and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders (in such capacity, the “Administrative Agent”). Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

\_\_\_\_\_ (the “Assignor”) and \_\_\_\_\_ (the “Assignee”) agree as follows:

i. The Assignor hereby irrevocably sells and assigns to the Assignee without recourse to the Assignor, and the Assignee hereby irrevocably purchases and assumes from the Assignor without recourse to the Assignor, as of the Effective Date (as defined below) (but not prior to the registration of the information contained herein in the Register pursuant to subsection 9.6(e) of the Credit Agreement), an interest (the “Assigned Interest”) in and to the Assignor’s rights and obligations under the Credit Agreement with respect to those credit facilities contained in the Credit Agreement as are set forth on Schedule 1 (individually, an “Assigned Facility”; collectively, the “Assigned Facilities”), in a principal amount for each Assigned Facility as set forth on Schedule 1.

ii. The Assignor (a) makes no representation or warranty and assumes no responsibility with respect to any statements, warranties or representations made in or in connection with the Credit Agreement, any other Loan Document or any other instrument or document furnished pursuant thereto, or with respect to the execution, legality, validity, enforceability, genuineness, sufficiency or value of the Credit Agreement, any other Loan Document or any other instrument or document furnished pursuant thereto, other than that the Assignor has not created any adverse claim upon the interest being assigned by it hereunder and that such interest is free and clear of any such adverse claim; (b) makes no representation or warranty and assumes no responsibility with respect to the financial condition of the Company, any of its Subsidiaries or any other obligor or the performance or observance by the Company, any of its Subsidiaries or any other obligor of any of their respective obligations under the Credit Agreement or any other Loan Document or any other instrument or document furnished pursuant hereto or thereto; and (c) (i) requests that the Managing Administrative Agent, upon request by the Assignee, (a) exchange any attached Notes for a new Note or Notes payable to the Assignee or, (b) if the Assignor does not hold any Notes, issue a new Note or Notes payable to the Assignee if so requested and (ii) if (A) the Assignor has retained any interest in the Assigned Facility and (B) the Assignor holds any Notes, requests that the Managing Administrative Agent exchange the attached Notes for a new Note or Notes payable to the Assignor, in each case in amounts which reflect the assignment being made hereby (and after giving effect to any other assignments which have become effective on the Effective Date).

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iii. The Assignee (a) represents and warrants that it is legally authorized to enter into this Assignment and Acceptance; (b) confirms that, to the extent it has so required, it has received a copy of the Credit Agreement, together with copies of the financial statements referred to in or delivered pursuant to Sections 3.1 and 5.1 thereof and such other documents and information as it has deemed appropriate to make its own credit analysis and decision to enter into this Assignment and Acceptance; (c) agrees that it will, independently and without reliance upon the Assignor, the Managing Administrative Agent or any other Lender and based on such documents and information as it shall deem appropriate at the time, continue to make its own credit decisions in taking or not taking action under the Credit Agreement, the other Loan Documents or any other instrument or document furnished pursuant hereto or thereto; (d) appoints and authorizes the Managing Administrative Agent to take such action as Managing Administrative Agent on its behalf and to exercise such powers and discretion under the Credit Agreement, the other Loan Documents or any other instrument or document furnished pursuant hereto or thereto as are delegated to the Managing Administrative Agent by the terms thereof, together with such powers as are incidental thereto; and (e) agrees that, with respect to the Assigned Interest, it will be a party to and bound by the provisions of the Credit Agreement and will perform in accordance with its terms all the obligations which by the terms of the Credit Agreement are required to be performed by it as a Lender including, if it is organized under the laws of a jurisdiction outside the United States, its obligations pursuant to subsection 2.16(b) of the Credit Agreement.

iv. The effective date of this Assignment and Acceptance shall be \_\_\_\_\_, 20\_\_ (the "Effective Date"). Following the execution of this Assignment and Acceptance and the consent hereto by the Company to the extent required under the Credit Agreement, it will be delivered to the Managing Administrative Agent for acceptance by it and recording by the Managing Administrative Agent pursuant to the Credit Agreement, effective as of the Effective Date (which shall not, unless otherwise agreed to by the Managing Administrative Agent, be earlier than five Business Days after the date of such acceptance and recording by the Managing Administrative Agent).

v. Upon such acceptance and recording, from and after the Effective Date, the Managing Administrative Agent shall make all payments in respect of the Assigned Interest (including payments of principal, interest, fees and other amounts) to the Assignor and Assignee. The Assignor and the Assignee shall make all appropriate adjustments in payments by the Managing Administrative Agent for periods prior to the Effective Date or with respect to the making of this assignment directly between themselves.

vi. From and after the Effective Date, (a) the Assignee shall, with respect to the Assigned Interest, be a party to the Credit Agreement and, to the extent provided in this Assignment and Acceptance, have the rights and obligations of a Lender thereunder and under the other Loan Documents and shall be bound by the provisions thereof and (b) the Assignor shall, to the extent provided in this Assignment and Acceptance, relinquish its rights (except pursuant to Sections 2.14, 2.15 and 9.5 of the Credit Agreement) and be released from its obligations under the Credit Agreement.

vii. This Assignment and Acceptance shall be governed by and construed in accordance with the law of the State of New York.

viii. This Agreement may be executed by one or more of the parties to this Agreement on any number of separate counterparts (including by facsimile transmission), and all of said counterparts taken together shall be deemed to constitute one and the same instrument.

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IN WITNESS WHEREOF, the parties hereto have caused this Assignment and Acceptance to be executed as of the date first above written by their respective duly authorized officers on Schedule 1 hereto.

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Schedule 1 to Assignment and Acceptance

Re: Assignment and Acceptance relating to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among Mastercard Incorporated, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the “Lenders”), Citibank, N.A., as Managing Administrative Agent for the Lenders (in such capacity, the “Managing Administrative Agent”) and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders (in such capacity, the “Administrative Agent”).

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Name of Assignor:

Name of Assignee:

Effective Date of Assignment:

Credit Facility Assigned  
Revolving Credit

Principal Amount Assigned  
\$ \_\_\_\_\_

The terms set forth above are hereby agreed to by:

[NAME OF ASSIGNEE]

By \_\_\_\_\_  
Name:  
Title:

[Consented to and] Accepted:<sup>2</sup>

CITIBANK, N.A., as  
Managing Administrative Agent

By \_\_\_\_\_  
Name:  
Title:

[Consented To:]<sup>4</sup>

CITIBANK, N.A., as Swing Line Lender

By \_\_\_\_\_  
Name:  
Title:

[NAME OF ASSIGNOR]

By \_\_\_\_\_  
Name:  
Title:

[Consented To:]<sup>3</sup>

MASTERCARD INCORPORATED

By \_\_\_\_\_  
Name:  
Title:

[•], as Swing Line Lender

By \_\_\_\_\_  
Name:  
Title:

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<sup>2</sup> If required of the Managing Administrative Agent by Section 9.6(c)(i) of the Credit Agreement.

<sup>3</sup> If required of the Company by Section 9.6(c)(i) of the Credit Agreement.

<sup>4</sup> If required of the Swing Line Lenders by Section 9.6(c)(i) of the Credit Agreement.

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**[FORM OF NEW LENDER SUPPLEMENT]****NEW LENDER SUPPLEMENT**

SUPPLEMENT, dated \_\_\_\_\_, to the Fourth Amended and Restated Credit Agreement dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among MASTERCARD INCORPORATED, a Delaware corporation (the "Company"), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions parties thereto (the "Lenders"), CITIBANK, N.A., as Managing Administrative Agent (in such capacity, the "Managing Administrative Agent") for the Lenders and JPMorgan Chase Bank, N.A., as Administrative Agent (in such capacity, the "Administrative Agent") for the Lenders.

**WITNESSETH:**

WHEREAS, the Credit Agreement provides in subsection 2.18(b) thereof that any bank, financial institution or other entity, although not originally a party thereto, may become a party to the Credit Agreement with the consent of the Company and the Managing Administrative Agent by executing and delivering to the Company and the Managing Administrative Agent a supplement to the Credit Agreement in substantially the form of this Supplement; and

WHEREAS, the undersigned was not an original party to the Credit Agreement but now desires to become a party thereto;

NOW, THEREFORE, the undersigned hereby agrees as follows:

1. The undersigned agrees to be bound by the provisions of the Credit Agreement, and agrees that it shall, on the date this Supplement is accepted by the Company and the Managing Administrative Agent, become a Lender for all purposes of the Credit Agreement to the same extent as if originally a party thereto, with a Commitment of \$\_\_\_\_\_.
  2. The undersigned (a) represents and warrants that it is legally authorized to enter into this Supplement; (b) confirms that it has received a copy of the Credit Agreement, together with copies of the financial statements delivered pursuant to Sections 3.1 and 5.1 thereof and such other documents and information as it has deemed appropriate to make its own credit analysis and decision to enter into this Supplement; (c) agrees that it has made and will, independently and without reliance upon the Managing Administrative Agent or any other Lender and based on such documents and information as it shall deem appropriate at the time, continue to make its own credit decisions in taking or not taking action under the Credit Agreement or any instrument or document furnished pursuant hereto or thereto; (d) appoints and authorizes the Managing Administrative Agent to take such action as Managing Administrative Agent on its behalf and to exercise such powers and discretion under the Credit Agreement or any instrument or document furnished pursuant hereto or thereto as are delegated to the Managing Administrative Agent by the terms thereof, together with such powers as are incidental thereto; and (e) agrees that it will be bound by the provisions of the Credit Agreement and will perform in accordance with its terms all the obligations which by the terms of
-

the Credit Agreement are required to be performed by it as a Lender including, without limitation, if it is organized under the laws of a jurisdiction outside the United States, its obligation pursuant to subsection 2.16(b) of the Credit Agreement.

3. The undersigned's address for notices for the purposes of the Credit Agreement is as follows:

4. Terms defined in the Credit Agreement shall have their defined meanings when used herein.

IN WITNESS WHEREOF, the undersigned has caused this Supplement to be executed and delivered by a duly authorized officer on the date first above written.

[INSERT NAME OF LENDER]

By \_\_\_\_\_  
Name:  
Title:

Accepted this \_\_\_\_\_ day of  
\_\_\_\_\_, \_\_\_\_\_.

MASTERCARD INCORPORATED

By \_\_\_\_\_  
Name:  
Title:

Accepted this \_\_\_\_\_ day of  
\_\_\_\_\_, \_\_\_\_\_.

CITIBANK, N.A., as Managing Administrative Agent

By \_\_\_\_\_  
Name:  
Title:

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**[FORM OF COMMITMENT INCREASE SUPPLEMENT]****COMMITMENT INCREASE SUPPLEMENT**

SUPPLEMENT, dated \_\_\_\_\_, to the Fourth Amended and Restated Credit Agreement dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions parties thereto (the “Lenders”), CITIBANK, N.A., as Managing Administrative Agent (in such capacity, the “Managing Administrative Agent”) for the Lenders and JPMorgan Chase Bank, N.A., as Administrative Agent (in such capacity, the “Administrative Agent”) for the Lenders.

**WITNESSETH:**

WHEREAS, the Credit Agreement provides in subsection 2.18(c) thereof that any Lender with (when applicable) the consent of the Company may increase the amount of its Commitment by executing and delivering to the Company and the Managing Administrative Agent a supplement to the Credit Agreement in substantially the form of this Supplement; and

WHEREAS, the undersigned now desires to increase the amount of its Commitment under the Credit Agreement;

NOW THEREFORE, the undersigned hereby agrees as follows:

1. The undersigned agrees, subject to the terms and conditions of the Credit Agreement, that on the date this Supplement is accepted by the Company and the Managing Administrative Agent it shall have its Commitment increased by \$ \_\_\_\_\_, thereby making the total amount of its Commitment \$ \_\_\_\_\_.
2. Terms defined in the Credit Agreement shall have their defined meanings when used herein.

[remainder of page intentionally blank]

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IN WITNESS WHEREOF, the undersigned has caused this Supplement to be executed and delivered by a duly authorized officer on the date first above written.

[INSERT NAME OF LENDER]

By \_\_\_\_\_  
Name:  
Title:

Accepted this \_\_\_\_\_ day of  
\_\_\_\_\_, \_\_\_\_.

MASTERCARD INCORPORATED

By \_\_\_\_\_  
Name:  
Title:

Accepted this \_\_\_\_\_ day of  
\_\_\_\_\_, \_\_\_\_.

CITIBANK, N.A., as Managing Administrative Agent

By \_\_\_\_\_  
Name:  
Title:

\_\_\_\_\_

**[FORM OF U.S. TAX CERTIFICATE]****U.S. TAX CERTIFICATE**

(For Non-U.S. Lenders That Are Not Partnerships For U.S. Federal Income Tax Purposes)

Reference is hereby made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022, (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties to the Credit Agreement (the “Lenders”), CITIBANK, N.A., as managing administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Managing Administrative Agent”), and JPMorgan Chase Bank, N.A., as administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Administrative Agent”).

Pursuant to the provisions of Section 2.16 of the Credit Agreement, the undersigned hereby certifies that (i) it is the sole record and beneficial owner of the Loan(s) (as well as any Note(s) evidencing such Loan(s)) in respect of which it is providing this certificate, (ii) it is not a bank within the meaning of Section 881(c)(3)(A) of the Code, (iii) it is not a ten percent shareholder of the Company within the meaning of Section 871(h)(3)(B) of the Code, (iv) it is not a controlled foreign corporation related to the Company as described in Section 881(c)(3)(C) of the Code and (v) the interest payments in question are not effectively connected with the undersigned’s conduct of a U.S. trade or business.

The undersigned has furnished the Managing Administrative Agent and the Company with a certificate of its non-U.S. person status on United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable. By executing this certificate, the undersigned agrees that (1) if the information provided on this certificate changes, the undersigned shall promptly so inform the Company and the Managing Administrative Agent and (2) the undersigned shall have at all times furnished the Company and the Managing Administrative Agent with a properly completed and currently effective certificate in either the calendar year in which each payment is to be made to the undersigned, or in either of the two calendar years preceding such payments.

Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

[NAME OF LENDER]

By: \_\_\_\_\_

Name:

Title:

Date: \_\_\_\_\_, 20[ ]



**[FORM OF U.S. TAX CERTIFICATE]****U.S. TAX CERTIFICATE**

(For Non-U.S. Lenders That Are Partnerships For U.S. Federal Income Tax Purposes)

Reference is hereby made to the Third Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties to the Credit Agreement (the “Lenders”), CITIBANK, N.A., as managing administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Managing Administrative Agent”), and JPMorgan Chase Bank, N.A., as administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Administrative Agent”).

Pursuant to the provisions of Section 2.16 of the Credit Agreement, the undersigned hereby certifies that (i) it is the sole record owner of the Loan(s) (as well as any Note(s) evidencing such Loan(s)) in respect of which it is providing this certificate, (ii) its direct or indirect partners/members are the sole beneficial owners of such Loan(s) (as well as any Note(s) evidencing such Loan(s)), (iii) with respect to the extension of credit pursuant to this Credit Agreement, neither the undersigned nor any of its direct or indirect partners/members is a bank extending credit pursuant to a loan agreement entered into in the ordinary course of its trade or business within the meaning of Section 881(c)(3)(A) of the Code, (iv) none of its direct or indirect partners/members is a ten percent shareholder of the Company within the meaning of Section 871(h)(3)(B) of the Code, (v) none of its direct or indirect partners/members is a controlled foreign corporation related to the Company as described in Section 881(c)(3)(C) of the Code, and (vi) the interest payments in question are not effectively connected with the undersigned’s or its direct or indirect partners/members’ conduct of a U.S. trade or business.

The undersigned has furnished the Managing Administrative Agent and the Company with United States Internal Revenue Service Form W-8IMY accompanied by one of the following forms from each of its partners/members claiming the portfolio interest exemption: (i) a United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable, or (ii) a United States Internal Revenue Service Form W-8IMY accompanied by a United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable, from each of such partner’s/member’s beneficial owners that is claiming the portfolio interest exemption. By executing this certificate, the undersigned agrees that (1) if the information provided on this certificate changes, the undersigned shall promptly so inform the Company and the Managing Administrative Agent and (2) the undersigned shall have at all times furnished the Company and the Managing Administrative Agent with a properly completed and currently effective certificate in either the calendar year in which each payment is to be made to the undersigned, or in either of the two calendar years preceding such payments.

Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

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[NAME OF LENDER]

By: \_\_\_\_\_  
Name:  
Title:

Date: \_\_\_\_\_, 20[ ]

\_\_\_\_\_

**[FORM OF U.S. TAX CERTIFICATE]****U.S. TAX CERTIFICATE**

(For Non-U.S. Participants That Are Not Partnerships For U.S. Federal Income Tax Purposes)

Reference is hereby made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties to the Credit Agreement (the “Lenders”), CITIBANK, N.A., as managing administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Managing Administrative Agent”), and JPMorgan Chase Bank, N.A., as administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Administrative Agent”).

Pursuant to the provisions of Section 2.16 of the Credit Agreement, the undersigned hereby certifies that (i) it is the sole record and beneficial owner of the participation in respect of which it is providing this certificate, (ii) it is not a bank within the meaning of Section 881(c)(3)(A) of the Code, (iii) it is not a ten percent shareholder of the Company within the meaning of Section 871(h)(3)(B) of the Code, (iv) it is not a controlled foreign corporation related to the Company as described in Section 881(c)(3)(C) of the Code, and (v) the interest payments in question are not effectively connected with the undersigned’s conduct of a U.S. trade or business.

The undersigned has furnished its participating Lender with a certificate of its non-U.S. person status on United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable. By executing this certificate, the undersigned agrees that (1) if the information provided on this certificate changes, the undersigned shall promptly so inform such Lender in writing and (2) the undersigned shall have at all times furnished such Lender with a properly completed and currently effective certificate in either the calendar year in which each payment is to be made to the undersigned, or in either of the two calendar years preceding such payments.

Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

[NAME OF PARTICIPANT]

By: \_\_\_\_\_  
 Name:  
 Title:

Date: \_\_\_\_\_, 20[ ]

**[FORM OF U.S. TAX CERTIFICATE]****U.S. TAX CERTIFICATE**

(For Non-U.S. Participants That Are Partnerships For U.S. Federal Income Tax Purposes)

Reference is hereby made to the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the “Credit Agreement”), among MASTERCARD INCORPORATED, a Delaware corporation (the “Company”), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties to the Credit Agreement (the “Lenders”), CITIBANK, N.A., as managing administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Managing Administrative Agent”), and JPMorgan Chase Bank, N.A., as administrative agent for the Lenders under the Credit Agreement (in such capacity, the “Administrative Agent”).

Pursuant to the provisions of Section 2.16 of the Credit Agreement, the undersigned hereby certifies that (i) it is the sole record owner of the participation in respect of which it is providing this certificate, (ii) its direct or indirect partners/members are the sole beneficial owners of such participation, (iii) with respect such participation, neither the undersigned nor any of its direct or indirect partners/members is a bank extending credit pursuant to a loan agreement entered into in the ordinary course of its trade or business within the meaning of Section 881(c)(3)(A) of the Code, (iv) none of its direct or indirect partners/members is a ten percent shareholder of the Company within the meaning of Section 871(h)(3)(B) of the Code, (v) none of its direct or indirect partners/members is a controlled foreign corporation related to the Company as described in Section 881(c)(3)(C) of the Code, and (vi) the interest payments in question are not effectively connected with the undersigned’s or its direct or indirect partners/members’ conduct of a U.S. trade or business.

The undersigned has furnished its participating Lender with United States Internal Revenue Service Form W-8IMY accompanied by one of the following forms from each of its partners/members claiming the portfolio interest exemption: (i) a United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable, or (ii) a United States Internal Revenue Service Form W-8IMY accompanied by a United States Internal Revenue Service Form W-8BEN or W-8BEN-E, as applicable, from each of such partner’s/member’s beneficial owners that is claiming the portfolio interest exemption. By executing this certificate, the undersigned agrees that (1) if the information provided on this certificate changes, the undersigned shall promptly so inform such Lender and (2) the undersigned shall have at all times furnished such Lender with a properly completed and currently effective certificate in either the calendar year in which each payment is to be made to the undersigned, or in either of the two calendar years preceding such payments.

Unless otherwise defined herein, terms defined in the Credit Agreement and used herein shall have the meanings given to them in the Credit Agreement.

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[NAME OF PARTICIPANT]

By: \_\_\_\_\_  
Name:  
Title:

Date: \_\_\_\_\_ \_\_, 20[ ]

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[FORM OF SWING LINE BORROWING NOTICE]

SWING LINE BORROWING NOTICE

Citibank, N.A.,  
as Managing Administrative Agent  
1 Penns Way, OPS II  
New Castle, Delaware 19720  
Attention: \*\*\*\*\*  
Fax: \*\*\*\*\*  
Telephone: \*\*\*\*\*  
Borrower inquiries only: \*\*\*\*\*  
Borrower notifications: \*\*\*\*\*

JPMorgan Chase Bank, N.A.  
JPM-Delaware Loan Operations  
Attention: \*\*\*\*\*  
500 Stanton Christiana Road, Ops 2/3  
Newark, Delaware 19713-2107  
Fax: \*\*\*\*\*  
Phone: \*\*\*\*\*  
Electronic mail: \*\*\*\*\*

Dear Sirs:

This Borrowing Notice is delivered to you by the undersigned (the ["Company"] ["Borrower"]) in connection with Section 2.13 of the Fourth Amended and Restated Credit Agreement, dated as of November [10], 2022 (as amended, restated, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement"), among Mastercard Incorporated (the "Company"), the Subsidiary Borrowers from time to time parties thereto, the several banks and other financial institutions from time to time parties thereto (the "Lenders"), Citibank, N.A., as Managing Administrative Agent for the Lenders and JPMorgan Chase Bank, N.A., as Administrative Agent for the Lenders. Unless otherwise defined herein, capitalized terms used herein have the meanings provided in the Credit Agreement.

The [Company][Borrower] hereby requests that Swing Line Loans be made in the aggregate principal amount of \$\_\_\_\_\_ on \_\_\_\_\_, 20\_\_ (the "Borrowing Date"). The [Company][Borrower] requests that such Swing Line Loans be made as ABR Loans in a principal amount of \$\_\_\_\_\_. The [Company][Borrower] requests that the Swing Line Loans requested be paid into account at [bank].

The Company [and the Borrower (as applicable pursuant to Section 3.19 of the Credit Agreement)] hereby certifies that the representations and warranties contained in Section 3 of the Credit Agreement (excluding the representations and warranties made in Section 3.2 and 3.6) will be true and correct in all material respects (except that such representations and

warranties that are qualified as to materiality will be true and correct in all respects) on and as of the Borrowing Date with the same effect as if made on and as of such date both before and after giving effect to the Swing Line Loans to be made on the Borrowing Date and that no event has occurred or will be continuing on the Borrowing Date, or will result from the making of the Swing Line Loans to be made on the Borrowing Date, which constitutes a Default or an Event of Default.

IN WITNESS WHEREOF, the [Company][Borrower] has caused this request and certificate to be executed and delivered by its duly authorized officer this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

MASTERCARD INCORPORATED

By: \_\_\_\_\_  
Name:  
Title:

[NAME OF SUBSIDIARY BORROWER]

By: \_\_\_\_\_  
Name:  
Title:

## LIST OF SUBSIDIARIES OF MASTERCARD INCORPORATED

The following is a list of subsidiaries of Mastercard Incorporated as of December 31, 2022, omitting subsidiaries which, considered in the aggregate, would not constitute a significant subsidiary:

<b><u>Name</u></b>	<b><u>Jurisdiction</u></b>
Global Mastercard Holdings LP	United Kingdom
Mastercard A&M Investment Holdings, LLC	Delaware
Mastercard Asia/Pacific Pte. Ltd.	Singapore
Mastercard/Europay U.K. Limited	United Kingdom
Mastercard Europe SA	Belgium
Mastercard AP Financing Pte. Ltd.	Singapore
Mastercard Financing Solutions LLC	Delaware
Mastercard Holdings LP	United Kingdom
Mastercard International Incorporated	Delaware
Mastercard Payment Gateway Services Group Limited	United Kingdom
Mastercard Europe Services Limited	United Kingdom
Mastercard US Holdings LLC	Delaware



CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-8 (Nos. 333-135572; 333-136460; and 333-143777) and Form S-3 (No. 333-253041) of Mastercard Incorporated of our report dated February 14, 2023 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP  
New York, New York  
February 14, 2023

**CERTIFICATION PURSUANT TO  
RULE 13a-14(a)/15d-14(a),  
AS ADOPTED PURSUANT TO SECTION 302  
OF THE SARBANES-OXLEY ACT OF 2002**

I, Michael Miebach, certify that:

1. I have reviewed this annual report on Form 10-K of Mastercard Incorporated;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 14, 2023

By: /s/ Michael Miebach

Michael Miebach  
President and Chief Executive Officer

**CERTIFICATION PURSUANT TO  
RULE 13a-14(a)/15d-14(a),  
AS ADOPTED PURSUANT TO SECTION 302  
OF THE SARBANES-OXLEY ACT OF 2002**

I, Sachin Mehra, certify that:

1. I have reviewed this annual report on Form 10-K of Mastercard Incorporated;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
  - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 14, 2023

By: /s/ Sachin Mehra  
Sachin Mehra  
Chief Financial Officer

**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO SECTION 906  
OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Mastercard Incorporated (the "Company") on Form 10-K for the period ended December 31, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Michael Miebach, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

February 14, 2023

/s/ Michael Miebach

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**Michael Miebach**

**President and Chief Executive Officer**

**CERTIFICATION PURSUANT TO  
18 U.S.C. SECTION 1350,  
AS ADOPTED PURSUANT TO SECTION 906  
OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report of Mastercard Incorporated (the "Company") on Form 10-K for the period ended December 31, 2022 as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Sachin Mehra, certify, pursuant to 18 U.S.C. section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002, that to the best of my knowledge:

1. The Report fully complies with the requirements of section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

February 14, 2023

/s/ Sachin Mehra

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**Sachin Mehra**  
**Chief Financial Officer**

**Section 13(r) Disclosure**

Mastercard Incorporated ("Mastercard") has established a risk-based compliance program designed to prevent us from having business dealings with Iran, as well as other prohibited countries, regions, individuals or entities. This includes obligating issuers and acquirers to screen account holders and merchants, respectively, against the U.S. Office of Foreign Assets Control's ("OFAC") sanctions lists, including the List of Specially Designated Nationals ("SDN list").

We identified through our compliance program that for the period covered by this Report, Mastercard processed transactions resulting from:

- acquirers located in the Europe and Eastern Europe/Middle East/Africa regions having each acquired transactions for an Iranian airline
- an acquirer located in the Latin America/Caribbean region having acquired transactions for consular services with an Iranian embassy
- an acquirer located in the Europe region having acquired transactions for consular services with an entity located within an Iranian embassy
- an acquirer located in the Eastern Europe/Middle East/Africa region having acquired transactions for an Iranian merchant located at an international exhibition and potentially acting on behalf of the Iranian government

OFAC regulations and other legal authorities provide exemptions for certain activities involving dealings with Iran. However, Section 219 of the Iran Threat Reduction and Syria Human Rights Act of 2012 requires us to disclose whether we, or any of our affiliates, have knowingly engaged in certain transactions or dealings involving the Government of Iran or with certain persons or entities found on the SDN list, regardless of whether these dealings constitute a violation of OFAC regulations.

We do not calculate net revenues or net profits associated with specific merchants (our customers' customers). However, we used our fee schedule and the aggregate number and amount of transactions involving the above merchants to estimate the net revenue and net profit we obtained during the three months and year ended December 31, 2022. Both the number of transactions and our estimated net revenue and net profits for this period are de minimis.