

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
Form 10-Q**

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

For the quarterly period ended June 30, 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
1.1% Notes due 2022	MA22	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

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 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 Accelerated filer
Non-accelerated filer Smaller reporting company
Emerging growth company

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 is a shell company (as defined in Rule 12b-2 of the Act) Yes No

As of July 25, 2022, there were 958,675,890 shares outstanding of the registrant's Class A common stock, par value \$0.0001 per share; and 7,700,184 shares outstanding of the registrant's Class B common stock, par value \$0.0001 per share.



MASTERCARD INCORPORATED FORM 10-Q

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In this Report on Form 10-Q ("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 the global COVID-19 pandemic and measures taken in response
- 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)
- exposure to loss or illiquidity due to our role as guarantor and other contractual obligations
- the impact of global economic, political, financial and societal events and conditions, including adverse currency fluctuations and foreign exchange controls
- events and resulting actions related to the Russian invasion of Ukraine
- reputational impact, including impact related to brand perception and lack of visibility of our brands in products and services
- the inability to attract, hire 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
- issues related to our Class A common stock and corporate governance structure

Please see a complete discussion of these risk factors in Part I, Item 1A - Risk Factors of the Company's Annual Report on Form 10-K for the year ended December 31, 2021 and in Part II, Item 1A - Risk Factors of the Company's Quarterly Report on Form 10-Q for the quarter ended March 31, 2022. 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. Consolidated financial statements (unaudited)

Item 2. Management's discussion and analysis of financial condition and results of operations

Item 3. Quantitative and qualitative disclosures about market risk

Item 4. Controls and procedures

Item 1. Consolidated financial statements (unaudited)

Mastercard Incorporated

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Consolidated Statement of Operations (Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions, except per share data)			
Net Revenue	\$ 5,497	\$ 4,528	\$ 10,664	\$ 8,683
Operating Expenses:				
General and administrative	1,947	1,718	3,791	3,394
Advertising and marketing	210	216	391	335
Depreciation and amortization	189	186	381	349
Provision for litigation	133	67	133	67
Total operating expenses	2,479	2,187	4,696	4,145
Operating income	3,018	2,341	5,968	4,538
Other Income (Expense):				
Investment income	7	3	12	4
Gains (losses) on equity investments, net	(117)	243	(193)	337
Interest expense	(114)	(106)	(224)	(213)
Other income (expense), net	4	(3)	8	2
Total other income (expense)	(220)	137	(397)	130
Income before income taxes	2,798	2,478	5,571	4,668
Income tax expense	523	412	665	774
Net Income	\$ 2,275	\$ 2,066	\$ 4,906	\$ 3,894
Basic Earnings per Share	\$ 2.34	\$ 2.09	\$ 5.04	\$ 3.93
Basic weighted-average shares outstanding	971	990	974	992
Diluted Earnings per Share	\$ 2.34	\$ 2.08	\$ 5.02	\$ 3.91
Diluted weighted-average shares outstanding	974	994	977	996

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

Consolidated Statement of Comprehensive Income (Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions)			
Net Income	\$ 2,275	\$ 2,066	\$ 4,906	\$ 3,894
Other comprehensive income (loss):				
Foreign currency translation adjustments	(710)	143	(774)	(55)
Income tax effect	31	(9)	43	24
Foreign currency translation adjustments, net of income tax effect	(679)	134	(731)	(31)
Translation adjustments on net investment hedges	314	(61)	400	72
Income tax effect	(70)	14	(89)	(16)
Translation adjustments on net investment hedges, net of income tax effect	244	(47)	311	56
Cash flow hedges	6	(4)	7	(1)
Income tax effect	(2)	1	(2)	—
Reclassification adjustments for cash flow hedges	—	3	(5)	4
Income tax effect	—	(1)	1	(1)
Cash flow hedges, net of income tax effect	4	(1)	1	2
Reclassification adjustments for defined benefit pension and other postretirement plans	(1)	(1)	(1)	(1)
Income tax effect	—	—	—	—
Defined benefit pension and other postretirement plans, net of income tax effect	(1)	(1)	(1)	(1)
Investment securities available-for-sale	(2)	1	(4)	2
Income tax effect	—	(1)	1	(1)
Investment securities available-for-sale, net of income tax effect	(2)	—	(3)	1
Other comprehensive income (loss), net of tax	(434)	85	(423)	27
Comprehensive Income	\$ 1,841	\$ 2,151	\$ 4,483	\$ 3,921

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

Consolidated Balance Sheet (Unaudited)

	June 30, 2022	December 31, 2021
	(in millions, except per share data)	
Assets		
Current assets:		
Cash and cash equivalents	\$ 5,921	\$ 7,421
Restricted cash for litigation settlement	584	586
Investments	438	473
Accounts receivable	3,175	3,006
Settlement assets	1,063	1,319
Restricted security deposits held for customers	1,621	1,873
Prepaid expenses and other current assets	2,409	2,271
Total current assets	15,211	16,949
Property, equipment and right-of-use assets, net of accumulated depreciation and amortization of \$1,736 and \$1,614, respectively	1,950	1,907
Deferred income taxes	920	486
Goodwill	7,519	7,662
Other intangible assets, net of accumulated amortization of \$1,839 and \$1,755, respectively	3,676	3,671
Other assets	6,955	6,994
Total Assets	\$ 36,231	\$ 37,669
Liabilities, Redeemable Non-controlling Interests and Equity		
Current liabilities:		
Accounts payable	\$ 633	\$ 738
Settlement obligations	672	913
Restricted security deposits held for customers	1,621	1,873
Accrued litigation	923	840
Accrued expenses	6,111	6,642
Current portion of long-term debt	735	792
Other current liabilities	1,390	1,364
Total current liabilities	12,085	13,162
Long-term debt	13,746	13,109
Deferred income taxes	371	395
Other liabilities	3,767	3,591
Total Liabilities	29,969	30,257
Commitments and Contingencies		
Redeemable Non-controlling Interests	26	29
Stockholders' Equity		
Class A common stock, \$0.0001 par value; authorized 3,000 shares, 1,399 and 1,397 shares issued and 960 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	5,163	5,061
Class A treasury stock, at cost, 439 and 425 shares, respectively	(47,359)	(42,588)
Retained earnings	49,599	45,648
Accumulated other comprehensive income (loss)	(1,232)	(809)
Mastercard Incorporated Stockholders' Equity	6,171	7,312
Non-controlling interests	65	71
Total Equity	6,236	7,383
Total Liabilities, Redeemable Non-controlling Interests and Equity	\$ 36,231	\$ 37,669

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

Consolidated Statement of Changes in Equity (Unaudited)

	Three Months Ended June 30, 2022								
	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)								
Balance at March 31, 2022	\$ —	\$ —	\$ 5,026	\$(44,994)	\$47,800	\$ (798)	\$ 7,034	\$ 68	\$ 7,102
Net income	—	—	—	—	2,275	—	2,275	—	2,275
Activity related to non-controlling interests	—	—	—	—	—	—	—	(3)	(3)
Redeemable non-controlling interest adjustments	—	—	—	—	(2)	—	(2)	—	(2)
Other comprehensive income (loss)	—	—	—	—	—	(434)	(434)	—	(434)
Dividends	—	—	—	—	(474)	—	(474)	—	(474)
Purchases of treasury stock	—	—	—	(2,365)	—	—	(2,365)	—	(2,365)
Share-based payments	—	—	137	—	—	—	137	—	137
Balance at June 30, 2022	\$ —	\$ —	\$ 5,163	\$(47,359)	\$49,599	\$ (1,232)	\$ 6,171	\$ 65	\$ 6,236

	Six Months Ended June 30, 2022								
	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)								
Balance at December 31, 2021	\$ —	\$ —	\$ 5,061	\$(42,588)	\$45,648	\$ (809)	\$ 7,312	\$ 71	\$ 7,383
Net income	—	—	—	—	4,906	—	4,906	—	4,906
Activity related to non-controlling interests	—	—	—	—	—	—	—	(6)	(6)
Redeemable non-controlling interest adjustments	—	—	—	—	(4)	—	(4)	—	(4)
Other comprehensive income (loss)	—	—	—	—	—	(423)	(423)	—	(423)
Dividends	—	—	—	—	(951)	—	(951)	—	(951)
Purchases of treasury stock	—	—	—	(4,776)	—	—	(4,776)	—	(4,776)
Share-based payments	—	—	102	5	—	—	107	—	107
Balance at June 30, 2022	\$ —	\$ —	\$ 5,163	\$(47,359)	\$49,599	\$ (1,232)	\$ 6,171	\$ 65	\$ 6,236

Consolidated Statement of Changes in Equity (Unaudited) - (Continued)

	Three Months Ended June 30, 2021								
	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)								
Balance at March 31, 2021	\$ —	\$ —	\$ 4,949	\$(38,024)	\$40,140	\$ (738)	\$ 6,327	\$ 98	\$ 6,425
Net income	—	—	—	—	2,066	—	2,066	—	2,066
Activity related to non-controlling interests	—	—	—	—	—	—	—	—	—
Redeemable non-controlling interest adjustments	—	—	—	—	(1)	—	(1)	—	(1)
Other comprehensive income (loss)	—	—	—	—	—	85	85	—	85
Dividends	—	—	—	—	(434)	—	(434)	—	(434)
Purchases of treasury stock	—	—	—	(1,705)	—	—	(1,705)	—	(1,705)
Share-based payments	—	—	104	—	—	—	104	—	104
Balance at June 30, 2021	\$ —	\$ —	\$ 5,053	\$(39,729)	\$41,771	\$ (653)	\$ 6,442	\$ 98	\$ 6,540

	Six Months Ended June 30, 2021								
	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)								
Balance at December 31, 2020	\$ —	\$ —	\$ 4,982	\$(36,658)	\$38,747	\$ (680)	\$ 6,391	\$ 97	\$ 6,488
Net income	—	—	—	—	3,894	—	3,894	—	3,894
Activity related to non-controlling interests	—	—	—	—	—	—	—	1	1
Redeemable non-controlling interest adjustments	—	—	—	—	(2)	—	(2)	—	(2)
Other comprehensive income (loss)	—	—	—	—	—	27	27	—	27
Dividends	—	—	—	—	(868)	—	(868)	—	(868)
Purchases of treasury stock	—	—	—	(3,075)	—	—	(3,075)	—	(3,075)
Share-based payments	—	—	71	4	—	—	75	—	75
Balance at June 30, 2021	\$ —	\$ —	\$ 5,053	\$(39,729)	\$41,771	\$ (653)	\$ 6,442	\$ 98	\$ 6,540

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

Consolidated Statement of Cash Flows (Unaudited)

	Six Months Ended June 30,	
	2022	2021
	(in millions)	
Operating Activities		
Net income	\$ 4,906	\$ 3,894
Adjustments to reconcile net income to net cash provided by operating activities:		
Amortization of customer and merchant incentives	812	651
Depreciation and amortization	381	349
(Gains) losses on equity investments, net	193	(337)
Share-based compensation	175	152
Deferred income taxes	(466)	(15)
Other	18	32
Changes in operating assets and liabilities:		
Accounts receivable	(257)	(158)
Settlement assets	255	769
Prepaid expenses	(1,033)	(995)
Accrued litigation and legal settlements	85	63
Restricted security deposits held for customers	(252)	110
Accounts payable	(110)	(92)
Settlement obligations	(239)	(906)
Accrued expenses	(282)	27
Net change in other assets and liabilities	53	187
Net cash provided by operating activities	4,239	3,731
Investing Activities		
Purchases of investment securities available-for-sale	(124)	(261)
Purchases of investments held-to-maturity	(139)	(173)
Proceeds from sales of investment securities available-for-sale	14	38
Proceeds from maturities of investment securities available-for-sale	113	171
Proceeds from maturities of investments held-to-maturity	160	156
Purchases of property and equipment	(201)	(146)
Capitalized software	(280)	(191)
Purchases of equity investments	(43)	(87)
Proceeds from sales of equity investments	6	—
Acquisition of businesses, net of cash acquired	(313)	(4,200)
Other investing activities	(5)	(9)
Net cash used in investing activities	(812)	(4,702)
Financing Activities		
Purchases of treasury stock	(4,788)	(3,067)
Dividends paid	(956)	(873)
Proceeds from debt, net	843	1,282
Contingent consideration paid	—	(64)
Tax withholdings related to share-based payments	(136)	(125)
Cash proceeds from exercise of stock options	68	44
Other financing activities	(6)	2
Net cash used in financing activities	(4,975)	(2,801)
Effect of exchange rate changes on cash, cash equivalents, restricted cash and restricted cash equivalents	(202)	(24)
Net decrease in cash, cash equivalents, restricted cash and restricted cash equivalents	(1,750)	(3,796)
Cash, cash equivalents, restricted cash and restricted cash equivalents - beginning of period	9,902	12,419
Cash, cash equivalents, restricted cash and restricted cash equivalents - end of period	\$ 8,152	\$ 8,623

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

Notes to consolidated financial statements (unaudited)

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 that connects consumers, financial institutions, merchants, governments, digital partners, businesses and other organizations worldwide, enabling them to use electronic forms of payment instead of cash and checks.

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 June 30, 2022 and December 31, 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. The Company corrected prior period classifications of certain line items within investing activities on the consolidated statement of cash flows with no impact on total net cash used in investing activities. The Company follows accounting principles generally accepted in the United States of America (“GAAP”).

The balance sheet as of December 31, 2021 was derived from the audited consolidated financial statements as of December 31, 2021. The consolidated financial statements for the three and six months ended June 30, 2022 and 2021 and as of June 30, 2022 are unaudited, and in the opinion of management, include all normal recurring adjustments that are necessary to present fairly the results for interim periods. The results of operations for the three and six months ended June 30, 2022 are not necessarily indicative of the results to be expected for the full year.

The accompanying unaudited consolidated financial statements are presented in accordance with the U.S. Securities and Exchange Commission (“SEC”) requirements for Quarterly Reports on Form 10-Q. Reference should be made to Mastercard’s Annual Report on Form 10-K for the year ended December 31, 2021 for additional disclosures, including a summary of the Company’s significant accounting policies.

Key Developments

Beginning in February 2022, in response to the Russian invasion of Ukraine, the United States and other governments imposed sanctions and other restrictive measures on certain Russian-related entities and individuals and, in March 2022, the Company suspended business operations in Russia. For the three and six months ended June 30, 2022, the net charges directly related to these actions of \$26 million and \$30 million, respectively, were not considered material to the Company’s overall financial results.

Note 2. Acquisitions

In April 2022, Mastercard acquired 100% equity interest in Dynamic Yield LTD. Total cash consideration for the acquisition was \$325 million. The Company is evaluating and finalizing the purchase accounting for this acquisition. The Company’s preliminary estimate of net assets acquired has been recorded primarily as intangible assets, including goodwill of \$219 million that is primarily attributable to the synergies expected to arise after the acquisition date, and other intangible assets related to developed technologies of \$100 million and customer relationships of \$25 million. None of the goodwill is expected to be deductible for local tax purposes. Refer to Note 1 (Summary of Significant Accounting Policies) to the consolidated financial statements included in Part II, Item 8 of the Company’s Annual Report on Form 10-K for the year ended December 31, 2021, for the valuation techniques Mastercard utilizes to fair value the respective components of business combinations.

In 2021, the Company acquired several businesses in separate transactions for total consideration of \$4.7 billion. As of June 30, 2022, the Company had finalized the purchase accounting for \$4.4 billion of the businesses acquired and is evaluating and finalizing the purchase accounting for the remainder of businesses acquired during 2021. For the preliminary estimated and final fair values of the purchase price allocations, as of the acquisition dates, refer to Note 2 (Acquisitions) to the consolidated financial statements included in Part II, Item 8 of the Company’s Annual Report on Form 10-K for the year ended December 31, 2021.

Note 3. Revenue

The Company's disaggregated net revenue by source and geographic region were as follows:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions)			
Revenue by source:				
Domestic assessments	\$ 2,283	\$ 2,056	\$ 4,417	\$ 3,854
Cross-border volume fees	1,615	1,076	3,010	2,008
Transaction processing	3,061	2,612	5,973	4,963
Other revenues	1,745	1,475	3,329	2,822
Gross revenue	8,704	7,219	16,729	13,647
Rebates and incentives (contra-revenue)	(3,207)	(2,691)	(6,065)	(4,964)
Net revenue	\$ 5,497	\$ 4,528	\$ 10,664	\$ 8,683
Net revenue by geographic region:				
North American Markets	\$ 1,979	\$ 1,605	\$ 3,682	\$ 3,096
International Markets	3,436	2,879	6,821	5,497
Other ¹	82	44	161	90
Net revenue	\$ 5,497	\$ 4,528	\$ 10,664	\$ 8,683

¹ Includes revenues managed by corporate functions.

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:

	June 30, 2022	December 31, 2021
	(in millions)	
Receivables from contracts with customers		
Accounts receivable	\$ 2,922	\$ 2,829
Contract assets		
Prepaid expenses and other current assets	77	134
Other assets	441	487
Deferred revenue ¹		
Other current liabilities	528	482
Other liabilities	205	180

¹ Revenue recognized from performance obligations satisfied during the three and six months ended June 30, 2022 was \$315 million and \$650 million, respectively.

Note 4. Earnings Per Share

The components of basic and diluted earnings per share ("EPS") for common shares were as follows:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions, except per share data)			
Numerator				
Net income	\$ 2,275	\$ 2,066	\$ 4,906	\$ 3,894
Denominator				
Basic weighted-average shares outstanding	971	990	974	992
Dilutive stock options and stock units	3	4	3	4
Diluted weighted-average shares outstanding ¹	974	994	977	996
Earnings per Share				
Basic	\$ 2.34	\$ 2.09	\$ 5.04	\$ 3.93
Diluted	\$ 2.34	\$ 2.08	\$ 5.02	\$ 3.91

Note: Table may not sum due to rounding.

¹ For the periods 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.

	June 30,	December 31,
	2022	2021
	(in millions)	
Cash and cash equivalents	\$ 5,921	\$ 7,421
Restricted cash and restricted cash equivalents		
Restricted cash for litigation settlement	584	586
Restricted security deposits held for customers	1,621	1,873
Prepaid expenses and other current assets	26	22
Cash, cash equivalents, restricted cash and restricted cash equivalents	\$ 8,152	\$ 9,902

Note 6. 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:

	June 30,	December 31,
	2022	2021
	(in millions)	
Available-for-sale securities ¹	\$ 290	\$ 314
Held-to-maturity securities ²	148	159
Total investments	\$ 438	\$ 473

¹ See Available-for-Sale Securities section below for further detail.

² 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 were as follows:

	June 30, 2022				December 31, 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	\$ 1	\$ —	\$ —	\$ 1	\$ 2	\$ —	\$ —	\$ 2
Government and agency securities	101	—	(1)	100	98	—	—	98
Corporate securities	192	—	(3)	189	214	—	—	214
Total	\$ 294	\$ —	\$ (4)	\$ 290	\$ 314	\$ —	\$ —	\$ 314

The Company's corporate and municipal available-for-sale investment securities held at June 30, 2022 and December 31, 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 June 30, 2022 was as follows:

	Amortized Cost	Fair Value
	(in millions)	
Due within 1 year	\$ 170	\$ 168
Due after 1 year through 5 years	124	122
Total	\$ 294	\$ 290

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 the three and six months ended June 30, 2022 and 2021 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 ¹	Other ²	Balance at June 30, 2022
	(in millions)					
Marketable securities	\$ 627	\$ —	\$ —	\$ (288)	\$ (18)	\$ 321
Nonmarketable securities	1,207	43	(6)	95	(26)	1,313
Total equity investments	\$ 1,834	\$ 43	\$ (6)	\$ (193)	\$ (44)	\$ 1,634

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

² Includes translational impact of currency.

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

	June 30, 2022	December 31, 2021
	(in millions)	
Measurement alternative	\$ 1,044	\$ 952
Equity method	269	255
Total Nonmarketable securities	\$ 1,313	\$ 1,207

The following table summarizes the total carrying value of the Company's Measurement alternative investments, including cumulative unrealized gains and losses through June 30, 2022:

	June 30, 2022
	(in millions)
Initial cost basis	\$ 470
Cumulative adjustments ¹ :	
Upward adjustments	608
Downward adjustments (including impairment)	(34)
Carrying amount, end of period	\$ 1,044

¹ 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 three and six months ended June 30, 2022 and 2021:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions)			
Measurement alternative investments:				
Upward adjustments	\$ 17	\$ 118	\$ 103	\$ 159
Downward adjustments (including impairment)	(12)	(1)	(12)	(1)
Marketable securities:				
Unrealized gains/(losses), net	(126)	91	(288)	145

Note 7. 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 non-recurring 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:

	June 30, 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)								
Assets								
Investment securities available-for-sale¹:								
Municipal securities	\$ —	\$ 1	\$ —	\$ 1	\$ —	\$ 2	\$ —	\$ 2
Government and agency securities	34	66	—	100	35	63	—	98
Corporate securities	—	189	—	189	—	214	—	214
Derivative instruments²:								
Foreign exchange contracts	—	167	—	167	—	8	—	8
Interest rate contracts	—	—	—	—	—	6	—	6
Marketable securities³:								
Equity securities	321	—	—	321	627	—	—	627
Deferred compensation plan⁴:								
Deferred compensation assets	74	—	—	74	89	—	—	89
Liabilities								
Derivative instruments²:								
Foreign exchange contracts	\$ —	\$ 3	\$ —	\$ 3	\$ —	\$ 15	\$ —	\$ 15
Interest rate contracts	—	73	—	73	—	8	—	8
Deferred compensation plan⁵:								
Deferred compensation liabilities	73	—	—	73	89	—	—	89

¹ 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.

² 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 17 (Derivative and Hedging Instruments) for further details.

³ 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.

⁴ 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.

⁵ 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 - Non-Recurring Measurements

Nonmarketable Securities

The Company's Nonmarketable securities are recorded at fair value on a non-recurring 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 6 (Investments) for further details.

Debt

The Company estimates the fair value of its long-term debt based on market quotes. These debt securities are classified as Level 2 of the Valuation Hierarchy as they are not traded in active markets. At June 30, 2022, the carrying value and fair value of total long-term debt (including the current portion) was \$14.5 billion and \$13.7 billion, respectively. At December 31, 2021, the carrying value and fair value of long-term debt (including the current portion) was \$13.9 billion and \$15.3 billion, respectively. See Note 10 (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 8. Prepaid Expenses and Other Assets

Prepaid expenses and other current assets consisted of the following:

	June 30, 2022	December 31, 2021
	(in millions)	
Customer and merchant incentives	\$ 1,314	\$ 1,326
Prepaid income taxes	122	92
Other	973	853
Total prepaid expenses and other current assets	\$ 2,409	\$ 2,271

Other assets consisted of the following:

	June 30, 2022	December 31, 2021
	(in millions)	
Customer and merchant incentives	\$ 3,964	\$ 3,798
Equity investments	1,634	1,834
Income taxes receivable	670	645
Other	687	717
Total other assets	\$ 6,955	\$ 6,994

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

Note 9. Accrued Expenses and Accrued Litigation

Accrued expenses consisted of the following:

	June 30, 2022	December 31, 2021
	(in millions)	
Customer and merchant incentives	\$ 4,471	\$ 4,730
Personnel costs	709	980
Income and other taxes	409	337
Other	522	595
Total accrued expenses	\$ 6,111	\$ 6,642

Customer and merchant incentives represent amounts to be paid to customers under business agreements. As of June 30, 2022 and December 31, 2021, long-term customer and merchant incentives included in other liabilities were \$2,023 million and \$1,835 million, respectively.

As of June 30, 2022 and December 31, 2021, the Company's provision for litigation was \$923 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 15 (Legal and Regulatory Proceedings) for additional information regarding the Company's accrued litigation.

Note 10. Debt

Long-term debt consisted of the following:

		June 30, 2022	December 31, 2021	Effective Interest Rate
		(in millions)		
2022 EUR Notes ¹	1.000 % Senior Notes due February 2029	\$ 788	\$ —	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 ²	1.100 % Senior Notes due December 2022	735	793	1.265 %
	2.100 % Senior Notes due December 2027	840	906	2.189 %
	2.500 % Senior Notes due December 2030	158	170	2.562 %
2014 USD Notes	3.375 % Senior Notes due April 2024	1,000	1,000	3.484 %
		14,671	14,019	
Less: Unamortized discount and debt issuance costs		(117)	(116)	
Less: Cumulative hedge accounting fair value adjustments ³		(73)	(2)	
Total debt outstanding		14,481	13,901	
Less: Current portion ⁴		(735)	(792)	
Long-term debt		\$ 13,746	\$ 13,109	

¹ €750 million euro-denominated debt issued in February 2022.

² €1.650 billion euro-denominated debt issued in December 2015.

³ In 2021, the Company entered into an interest rate swap which is accounted for as a fair value hedge. See Note 17 (Derivative and Hedging Instruments) for additional information.

⁴ 2015 EUR Notes due December 2022 are classified as current portion of long-term debt on the consolidated balance sheet as of June 30, 2022 and December 31, 2021.

Senior Notes

In February 2022, the Company issued €750 million (\$788 million as of June 30, 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 \$843 million (as of the date of settlement).

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, subsequent to the date of the financial statements, the Company entered into an unsecured INR22.7 billion (\$285 million as of the date of settlement) term loan due July 2023 (the “INR Term Loan”). The net proceeds of the INR Term Loan, after deducting issuance costs, were \$284 million (as of the date of settlement). The effective interest rate of the INR Term Loan is 9.090%.

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.

Note 11. Stockholders' Equity

Dividends

The Company declared quarterly cash dividends on its Class A and Class B common stock as summarized below:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	(in millions, except per share data)			
Dividends declared per share	\$ 0.49	\$ 0.44	\$ 0.98	\$ 0.88
Total dividends declared	\$ 474	\$ 434	\$ 951	\$ 868

Common Stock Activity

The following table presents the changes in the Company’s outstanding Class A and Class B common stock:

	Three Months Ended June 30,			
	2022		2021	
	Outstanding Shares		Outstanding Shares	
	Class A	Class B	Class A	Class B
	(in millions)			
Balance at beginning of period	966.5	7.7	983.9	8.2
Purchases of treasury stock	(6.9)	—	(4.6)	—
Share-based payments	0.4	—	0.3	—
Conversion of Class B to Class A common stock	—	—	0.2	(0.2)
Balance at end of period	960.0	7.7	979.8	8.0

	Six Months Ended June 30,			
	2022		2021	
	Outstanding Shares		Outstanding Shares	
	Class A	Class B	Class A	Class B
	(in millions)			
Balance at beginning of period	972.1	7.8	986.9	8.3
Purchases of treasury stock	(13.7)	—	(8.5)	—
Share-based payments	1.5	—	1.1	—
Conversion of Class B to Class A common stock	0.1	(0.1)	0.3	(0.3)
Balance at end of period	960.0	7.7	979.8	8.0

In November 2021 and December 2020, the Company's Board of Directors approved share repurchase programs of its Class A common stock authorizing the Company to repurchase up to \$8.0 billion and \$6.0 billion, respectively. The following table summarizes the Company's share repurchases of its Class A common stock:

	Six Months Ended June 30,	
	2022	2021
	(In millions, except per share data)	
Dollar-value of shares repurchased	\$ 4,788	\$ 3,067
Shares repurchased	13.7	8.5
Average price paid per share	\$ 350.10	\$ 359.66

As of June 30, 2022, the remaining authorization under the share repurchase programs approved by the Company's Board of Directors was \$7.1 billion.

Note 12. Accumulated Other Comprehensive Income (Loss)

The changes in the balances of each component of accumulated other comprehensive income (loss), net of tax, for the six months ended June 30, 2022 and 2021 were as follows:

	December 31, 2021	Increase / (Decrease)	Reclassifications	June 30, 2022
	(in millions)			
Foreign currency translation adjustments ¹	\$ (739)	\$ (731)	\$ —	\$ (1,470)
Translation adjustments on net investment hedges ²	34	311	—	345
Cash flow hedges				
Foreign exchange contracts ³	4	5	(6)	3
Interest rate contracts	(128)	—	2	(126)
Defined benefit pension and other postretirement plans	21	—	(1)	20
Investment securities available-for-sale	(1)	(3)	—	(4)
Accumulated other comprehensive income (loss)	\$ (809)	\$ (418)	\$ (5)	\$ (1,232)

	December 31, 2020	Increase / (Decrease)	Reclassifications	June 30, 2021
	(in millions)			
Foreign currency translation adjustments ¹	\$ (352)	\$ (31)	\$ —	\$ (383)
Translation adjustments on net investment hedges ²	(175)	56	—	(119)
Cash flow hedges				
Foreign exchange contracts ³	—	(1)	1	—
Interest rate contracts	(133)	—	2	(131)
Defined benefit pension and other postretirement plans	(20)	—	(1)	(21)
Investment securities available-for-sale	—	1	—	1
Accumulated other comprehensive income (loss)	\$ (680)	\$ 25	\$ 2	\$ (653)

¹ During the six months ended June 30, 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 the six months ended June 30, 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.

² During the six months ended June 30, 2022, the increase in the accumulated other comprehensive gain related to the net investment hedges was driven by the depreciation of the euro against the U.S. dollar. During the six months ended June 30, 2021, the decrease in the accumulated other comprehensive loss related to the net investment hedges was driven by the depreciation of the euro against the U.S. dollar. See Note 17 (Derivative and Hedging Instruments) for additional information.

³ 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 17 (Derivative and Hedging Instruments) for additional information.

Note 13. Share-Based Payments

During the six months ended June 30, 2022, the Company granted the following awards under the Mastercard Incorporated 2006 Long Term Incentive Plan, 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.

	Grants in 2022 (in millions)	Weighted-Average Grant-Date Fair Value (per option/unit)
Non-qualified stock options	0.3	\$ 87
Restricted stock units	0.9	342
Performance stock units	0.2	335

The Company used the Black-Scholes option pricing model to determine the grant-date fair value of stock options and calculated the expected life and the expected volatility based on historical Mastercard information. The expected life of stock options granted in 2022 was estimated to be six years, while the expected volatility was determined to be 24.6%. These awards expire ten years from the date of grant and vest ratably over three years.

The fair value of restricted stock units ("RSUs") is determined and fixed on the grant date based on the Company's Class A common stock price, adjusted for the exclusion of dividend equivalents. For RSUs granted between January 1, 2022 and February 28, 2022, the awards generally vest ratably over four years and for RSUs granted on or after March 1, 2022, the awards generally vest ratably over three years.

The Company used the Monte Carlo simulation valuation model to determine the grant-date fair value of performance stock units ("PSUs") granted. PSUs vest after three years from the date of grant and are subject to a mandatory one-year deferral period, during which vested PSUs are eligible for dividend equivalents.

Compensation expense is recorded net of estimated forfeitures over the shorter of the vesting period or the date the individual becomes eligible to retire under the LTIP. The Company uses the straight-line method of attribution over the requisite service period for expensing equity awards.

Note 14. Income Taxes

The effective income tax rates were 18.7% and 16.6% for the three months ended June 30, 2022 and 2021, respectively. The higher effective income tax rate for the three months ended June 30, 2022, versus the comparable period in 2021, was primarily due to a discrete tax benefit in the prior year 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.

The effective income tax rates were 11.9% and 16.6% for the six months ended June 30, 2022 and 2021, respectively. The lower effective income tax rate for the six months ended June 30, 2022, versus the comparable period in 2021, was primarily due to a discrete tax benefit related to final U.S. tax regulations published in the current year, partially offset by a discrete tax benefit in the prior year 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. The U.S. tax 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.

The Company is subject to tax in the United States, 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 are 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 2010.

Note 15. 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 unsupported 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.

During the second quarter of 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 June 30, 2022 and December 31, 2021, Mastercard had accrued a liability of \$914 million and \$783 million, respectively, as a reserve for both the Damages Class litigation and the opt-out merchant cases. As of June 30, 2022 and December 31, 2021, Mastercard had \$584 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 June 30, 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. Approximately £1 billion (approximately \$1.2 billion as of June 30, 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 which is scheduled to commence in January 2023.

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. The majority of these merchant claims generally had been stayed pending the decision of the U.K. Supreme Court, and a number of those matters are now progressing with motion practice and discovery. In one of the actions involving multiple merchant plaintiff claims, in November 2021 the U.K. trial court denied the plaintiffs' motion for summary judgment on certain liability issues. The plaintiffs were granted permission to appeal that ruling and oral argument on the appeal was heard in July 2022. 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 a decision is expected late in the third quarter of 2022.

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 June 30, 2022). In July 2017, the trial court denied the plaintiffs' application for the case to proceed as a collective action. In April 2019, the U.K. appellate court granted the plaintiffs' appeal of the trial court's decision and sent the case back to the trial court for a re-hearing on the plaintiffs' collective action application. In December 2020, the U.K. Supreme Court rejected Mastercard's appeal of this ruling. In March 2021, the trial court held a re-hearing on the plaintiffs' collective action application, during which Mastercard sought to narrow the scope of the proposed class. In August 2021, the trial court issued a decision in which it granted class certification but agreed with Mastercard's argument and narrowed the scope of the class. The trial court has scheduled a case management conference for September 2022.

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

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 February 2013, the district court granted Mastercard’s motion to dismiss the complaints for failure to state a claim. On appeal, the Court of Appeals reversed the district court’s order in August 2015 and sent the case back for further proceedings. In September 2019, the plaintiffs filed 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’s request for permission to appeal the certification decision to the appellate court was granted. Oral argument on the appeal is scheduled for September 2022.

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 have 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. In January 2021, the Network Defendants’ request for permission to appeal the district court’s certification decision to the appellate court 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 commence in October 2022.

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 FCC issued a declaratory ruling clarifying that the TCPA does not apply to faxes sent to online fax services that are received online via e-mail. In January 2021, the magistrate judge serving on the district court issued an opinion recommending that the district court judge deny plaintiffs’ class certification motion. In light of an appellate court decision, issued subsequent to the magistrate’s recommendation, the district court judge instructed the parties to re-brief the motion for class certification. In December 2021, the trial court narrowed the scope of the potential class as it denied the plaintiffs’ motion for class certification of a class of all fax recipients (both stand-alone faxes and online faxes sent via email). However, the court granted class certification for a narrower class of 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 focuses on Mastercard's compliance with the debit routing provisions of the Durbin Amendment. The FTC has issued a subpoena and Mastercard is cooperating with the investigation.

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 16. 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. While the term and amount of the guarantee are unlimited, the duration of settlement exposure is short term and typically limited to a few days.

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:

	June 30, 2022	December 31, 2021
	(in millions)	
Gross settlement exposure	\$ 62,299	\$ 59,571
Risk mitigation arrangements applied to settlement exposure	(8,554)	(7,710)
Net settlement exposure	\$ 53,745	\$ 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 \$349 million and \$361 million at June 30, 2022 and December 31, 2021, respectively, of which the Company has risk mitigation arrangements for \$277 million and \$287 million at June 30, 2022 and December 31, 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 17. 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. Gains and losses resulting from changes in fair value of these contracts are deferred in accumulated other comprehensive income (loss) and are subsequently reclassified as an adjustment to interest expense over the respective terms of the hedged debt issuances.

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 three and six months ended June 30, 2022 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 excluded from the effectiveness assessment and are 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 the three and six months ended June 30, 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. For the three and six months ended June 30, 2022 and 2021, the Company recorded pre-tax net foreign currency gains (losses) of \$148 million and \$199 million and \$(27) million and \$60 million, respectively, in other comprehensive income (loss).

As of June 30, 2022 and December 31, 2021, the Company had net foreign currency gains of \$345 million and \$34 million, respectively, after tax, 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:

	June 30, 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 ¹	\$ 217	\$ 5	\$ 1	\$ 206	\$ 7	\$ 3
Interest rate contracts in a fair value hedge ²	1,000	—	73	1,000	6	8
Foreign exchange contracts in a net investment hedge ¹	2,416	157	—	1,473	—	4
<i>Derivatives not designated as hedging instruments</i>						
Foreign exchange contracts ¹	540	5	2	530	1	8
Total derivative assets/liabilities	\$ 4,173	\$ 167	\$ 76	\$ 3,209	\$ 14	\$ 23

¹ 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.

² As of June 30, 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	
	Three Months Ended June 30,			Three Months Ended June 30,	
	2022	2021		2022	2021
	(in millions)			(in millions)	
Derivative financial instruments in a cash flow hedge relationship:					
Foreign exchange contracts	\$ 6	\$ (4)	Net revenue	\$ 1	\$ (1)
Interest rate contracts	\$ —	\$ —	Interest expense	\$ (1)	\$ (2)
Derivative financial instruments in a net investment hedge relationship:					
Foreign exchange contracts	\$ 166	\$ (34)			

	Gain (Loss) Recognized in OCI		Location of Gain (Loss) Reclassified from AOCI into Earnings	Gain (Loss) Reclassified from AOCI	
	Six Months Ended June 30,			Six Months Ended June 30,	
	2022	2021		2022	2021
	(in millions)			(in millions)	
Derivative financial instruments in a cash flow hedge relationship:					
Foreign exchange contracts	\$ 7	\$ (1)	Net revenue	\$ 8	\$ (1)
Interest rate contracts	\$ —	\$ —	Interest expense	\$ (3)	\$ (3)
Derivative financial instruments in a net investment hedge relationship:					
Foreign exchange contracts	\$ 201	\$ 12			

The Company estimates that \$2 million, pre-tax, of the net deferred loss on cash flow hedges recorded in accumulated other comprehensive income (loss) at June 30, 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:	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
(in millions)				
Foreign exchange derivative contracts				
General and administrative	\$ 12	\$ (7)	\$ 13	\$ (3)

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.

Item 2. Management's discussion and analysis of financial condition and results of operations

The following supplements management's discussion and analysis of Mastercard Incorporated for the year ended December 31, 2021 as contained in the Company's Annual Report on Form 10-K filed with the U.S. Securities and Exchange Commission on February 11, 2022. It also should be read in conjunction with the consolidated financial statements and notes of Mastercard Incorporated and its consolidated subsidiaries, including Mastercard International Incorporated (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.

Key Developments

Beginning in February 2022, in response to the Russian invasion of Ukraine, the United States 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 Russia¹. 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 2022 performance to date and are expected to continue to impact 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 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.

¹ 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:

	Three Months Ended June 30,			Six Months Ended June 30,			Increase/ (Decrease)
	2022	2021	Increase/ (Decrease)	2022	2021	Increase/ (Decrease)	
	(\$ in millions, except per share data)						
Net revenue	\$ 5,497	\$ 4,528	21%	\$ 10,664	\$ 8,683	23%	
Operating expenses	\$ 2,479	\$ 2,187	13%	\$ 4,696	\$ 4,145	13%	
Operating income	\$ 3,018	\$ 2,341	29%	\$ 5,968	\$ 4,538	32%	
Operating margin	54.9 %	51.7 %	3.2 ppt	56.0 %	52.3 %	3.7 ppt	
Income tax expense	\$ 523	\$ 412	27%	\$ 665	\$ 774	(14)%	
Effective income tax rate	18.7 %	16.6 %	2.1 ppt	11.9 %	16.6 %	(4.6) ppt	
Net income	\$ 2,275	\$ 2,066	10%	\$ 4,906	\$ 3,894	26%	
Diluted earnings per share	\$ 2.34	\$ 2.08	13%	\$ 5.02	\$ 3.91	28%	
Diluted weighted-average shares outstanding	974	994	(2)%	977	996	(2)%	

The following table provides a summary of our key non-GAAP operating results¹, 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:

	Three Months Ended June 30,		Increase/(Decrease)		Six Months Ended June 30,		Increase/(Decrease)	
	2022	2021	As adjusted	Currency-neutral	2022	2021	As adjusted	Currency-neutral
	(\$ in millions, except per share data)							
Adjusted net revenue	\$ 5,491	\$ 4,528	21%	27%	\$ 10,627	\$ 8,683	22%	27%
Adjusted operating expenses	\$ 2,313	\$ 2,121	9%	12%	\$ 4,496	\$ 4,079	10%	13%
Adjusted operating margin	57.9 %	53.2 %	4.7 ppt	5.4 ppt	57.7 %	53.0 %	4.7 ppt	5.3 ppt
Adjusted effective income tax rate	18.8 %	15.9 %	2.9 ppt	3.1 ppt	12.3 %	16.4 %	(4.1) ppt	(4.0) ppt
Adjusted net income	\$ 2,497	\$ 1,937	29%	37%	\$ 5,199	\$ 3,678	41%	49%
Adjusted diluted earnings per share	\$ 2.56	\$ 1.95	31%	40%	\$ 5.32	\$ 3.69	44%	52%

Note: Table may not sum due to rounding.

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

Key highlights for the three and six months ended June 30, 2022, during which we suspended our business operations in Russia, versus the comparable periods in 2021:

Net revenue	Adjusted net revenue	
Three Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	Adjusted net revenue increased 27% on a currency-neutral basis, which includes 1 percentage point of growth from acquisitions. Primary drivers of the increase were as follows:
up 21%	up 27%	
		<ul style="list-style-type: none"> - Gross dollar volume growth of 14% on a local currency basis - Cross-border volume growth of 58% on a local currency basis - Switched transactions growth of 12% - Other revenues increased 18% or 23% on a currency-neutral basis, which includes 3 percentage points of growth due to acquisitions. The remaining growth was driven primarily by our Cyber & Intelligence and Data & Services solutions.
		These increases were partially offset by: <ul style="list-style-type: none"> - Rebates and incentives (contra-revenue) increased 19%, or 23% on a currency-neutral basis, primarily due to increased volumes and transactions and new and renewed deals.
Six Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	Adjusted net revenue increased 27% on a currency-neutral basis, which includes 2 percentage points of growth from acquisitions. Primary drivers of the increase were as follows:
up 23%	up 27%	
		<ul style="list-style-type: none"> - Gross dollar volume growth of 15% on a local currency basis - Cross-border volume growth of 56% on a local currency basis - Switched transactions growth of 16% - Other revenues increased 18%, or 22% on a currency-neutral basis, which includes 5 percentage points of growth due to acquisitions. The remaining growth was driven primarily by our Cyber & Intelligence and Data & Services solutions.
		These increases were partially offset by: <ul style="list-style-type: none"> - Rebates and incentives (contra-revenue) increased 22%, or 25% on a currency-neutral basis, primarily due to increased volumes and transactions and new and renewed deals, which includes a 1 percentage point reduction from Special Items.

Operating expenses	Adjusted operating expenses	
Three Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	Adjusted operating expenses increased 12% on a currency-neutral basis, which includes 5 percentage points of growth due to acquisitions. The remaining increase was primarily due to higher personnel costs and unfavorable foreign exchange activity.
up 13%	up 12%	
Six Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	Adjusted operating expenses increased 13% on a currency-neutral basis, which includes 5 percentage points of growth due to acquisitions. The remaining increase was primarily due to higher personnel costs, increased spending on advertising and marketing and unfavorable foreign exchange activity.
up 13%	up 13%	
Effective income tax rate		
Adjusted effective income tax rate		
Three Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	The adjusted effective income tax rate of 18.8% was higher than prior year due to 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.
18.7%	18.8%	
Six Months Ended June 30, 2022		
GAAP	Non-GAAP (currency-neutral)	The adjusted effective income tax rate of 12.3% was lower than prior year due to a discrete tax benefit related to final U.S. tax regulations published in the current year, partially offset by a discrete tax benefit in the prior year 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. The U.S. tax regulations resulted in a valuation allowance release of \$333 million associated with the U.S. foreign tax credit carryforward deferred tax asset.
11.9%	12.3%	

Other financial highlights for the six months ended June 30, 2022 were as follows:

- We generated net cash flows from operations of \$4.2 billion.
- We repurchased 13.7 million shares of our common stock for \$4.8 billion and paid dividends of \$1.0 billion.
- We completed a euro-denominated debt offering for an aggregate principal amount of \$0.8 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

- In the three and six months ended June 30, 2022, we recorded net losses of \$117 million (\$113 million after tax, or \$0.12 per diluted share) and \$193 million (\$181 million after tax, or \$0.18 per diluted share), respectively, primarily related to unrealized fair market value adjustments on marketable and non-marketable equity securities.
- In the three and six months ended June 30, 2021, we recorded net gains of \$243 million (\$182 million after tax, or \$0.18 per diluted share) and \$337 million (\$269 million after tax, or \$0.27 per diluted share), respectively, primarily related to unrealized fair market value adjustments on marketable and non-marketable equity securities.

Special Items

Litigation provisions

- In the second quarter of 2022, we recorded charges of \$133 million (\$89 million after tax, or \$0.09 per diluted share) as a result of a change in estimate related to the claims of merchants who opted out of the U.S. merchant class litigation.

- In the second quarter of 2021, we recorded charges of \$67 million (\$52 million after tax, or \$0.05 per diluted share) related to litigation settlements and estimated attorneys' fees with U.K. merchants.

Russia-related impacts

- In the three and six months ended June 30, 2022, we recorded net charges of \$26 million (\$20 million after tax, or \$0.02 per diluted share) and \$30 million (\$24 million after tax, or \$0.02 per diluted share), respectively, directly related to imposed sanctions and the suspension of our business operations. The net charges are comprised of general and administrative expenses of \$33 million and \$67 million, respectively, primarily related to incremental employee-related costs and reserves on uncollectible balances with certain sanctioned customers. These charges are offset by net benefits of \$6 million and \$37 million, respectively, in rebates and incentives (contra-revenue) primarily related to a reduction in 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.

See Note 6 (Investments) and Note 15 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part I, Item 1 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:

	Three Months Ended June 30, 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	\$ 5,497	\$ 2,479	54.9 %	\$ (220)	18.7 %	\$ 2,275	\$ 2.34
(Gains) losses on equity investments	**	**	**	117	(0.6)%	113	0.12
Litigation provisions	**	(133)	2.4 %	**	0.7 %	89	0.09
Russia-related impacts	(6)	(33)	0.5 %	**	— %	20	0.02
Adjusted - Non-GAAP	\$ 5,491	\$ 2,313	57.9 %	\$ (104)	18.8 %	\$ 2,497	\$ 2.56

	Six Months Ended June 30, 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	\$ 10,664	\$ 4,696	56.0 %	\$ (397)	11.9 %	\$ 4,906	\$ 5.02
(Gains) losses on equity investments	**	**	**	193	(0.2)%	181	0.18
Litigation provisions	**	(133)	1.2 %	**	0.5 %	89	0.09
Russia-related impacts	(37)	(67)	0.5 %	**	0.1 %	24	0.02
Adjusted - Non-GAAP	\$ 10,627	\$ 4,496	57.7 %	\$ (205)	12.3 %	\$ 5,199	\$ 5.32

	Three Months Ended June 30, 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	\$ 4,528	\$ 2,187	51.7 %	\$ 137	16.6 %	\$ 2,066	\$ 2.08
(Gains) losses on equity investments	**	**	**	(243)	(0.9)%	(182)	(0.18)
Litigation provisions	**	\$ (67)	1.5 %	**	0.2 %	52	0.05
Adjusted - Non-GAAP	\$ 4,528	\$ 2,121	53.2 %	\$ (106)	15.9 %	\$ 1,937	\$ 1.95

	Six Months Ended June 30, 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	\$ 8,683	\$ 4,145	52.3 %	\$ 130	16.6 %	\$ 3,894	\$ 3.91
(Gains) losses on equity investments	**	**	**	(337)	(0.3)%	(269)	(0.27)
Litigation provisions	**	(67)	0.8 %	**	0.1 %	52	0.05
Adjusted - Non-GAAP	\$ 8,683	\$ 4,079	53.0 %	\$ (207)	16.4 %	\$ 3,678	\$ 3.69

Note: Tables may not sum due to rounding.

** Not applicable

The following table represents the reconciliation of our growth rates reported under GAAP to our non-GAAP growth rates:

	Three Months Ended June 30, 2022 as compared to the Three Months Ended June 30, 2021					
	Increase/(Decrease)					
	Net revenue	Operating expenses	Operating margin	Effective income tax rate	Net income	Diluted earnings per share
Reported - GAAP	21%	13%	3.2 ppt	2.1 ppt	10%	13%
(Gains) losses on equity investments	**	**	**	0.3 ppt	17%	17%
Litigation provisions	**	(3)%	1.0 ppt	0.5 ppt	1%	1%
Russia-related impacts	—%	(2)%	0.5 ppt	— ppt	1%	1%
Adjusted - Non-GAAP	21%	9%	4.7 ppt	2.9 ppt	29%	31%
Currency impact ¹	6%	3%	0.8 ppt	0.1 ppt	8%	9%
Adjusted - Non-GAAP - currency-neutral	27%	12%	5.4 ppt	3.1 ppt	37%	40%

	Six Months Ended June 30, 2022 as compared to the Six Months Ended June 30, 2021					
	Increase/(Decrease)					
	Net revenue	Operating expenses	Operating margin	Effective income tax rate	Net income	Diluted earnings per share
Reported - GAAP	23%	13%	3.7 ppt	(4.6) ppt	26%	28%
(Gains) losses on equity investments	**	**	**	0.1 ppt	14%	15%
Litigation provisions	**	(1)%	0.5 ppt	0.4 ppt	—%	1%
Russia-related impacts	—%	(2)%	0.5 ppt	0.1 ppt	1%	—%
Adjusted - Non-GAAP	22%	10%	4.7 ppt	(4.1) ppt	41%	44%
Currency impact ¹	5%	2%	0.7 ppt	0.1 ppt	7%	8%
Adjusted - Non-GAAP - currency-neutral	27%	13%	5.3 ppt	(4.0) ppt	49%	52%

Note: Table may not sum due to rounding.

** Not applicable

¹ 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.

Gross Dollar Volume ("GDV") ¹ measures dollar volume of activity 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 and includes the impact of balance transfers and convenience checks; "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 ² measures cross-border dollar volume initiated and switched through our network during the period, on a local currency basis and U.S. dollar-converted basis, for all Mastercard-branded programs.

Switched Transactions ² 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.

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.

¹ 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.

² 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.

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 domestic assessments, cross-border volume fees and 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, certain of our domestic assessments, cross-border volume fees and 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. For the three and six months ended June 30, 2022, GDV on a U.S. dollar-converted basis increased 8% and 10%, respectively, while GDV on a local currency basis increased 14% and 15%, respectively, versus the comparable periods in 2021. Further, the impact from transactional currency occurs in transaction processing revenue, other revenue and operating expenses when the transacting currency of these items is different than the functional currency of the entity.

To manage the impact of foreign currency variability on anticipated revenues and expenses, we may enter into foreign exchange derivative contracts and designate such derivatives as hedging instruments in a cash flow hedging relationship as discussed further in Note 17 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part I, Item 1.

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 17 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part I, Item 1.

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

Revenue

For the three months ended June 30, 2022, net revenue increased 21% versus the comparable period in 2021. Excluding the impact of Special Items, adjusted net revenue increased 21%, or 27% on a currency-neutral basis, and includes 1 percentage point of growth from acquisitions. The remaining increase was primarily driven by domestic and cross-border transaction and volume growth and an increase in our Cyber & Intelligence and Data & Services solutions within other revenue. These increases were partially offset by an increase in rebates and incentives (contra-revenue) of 19%, or 23% on a currency-neutral basis, primarily due to increased volumes and transactions and new and renewed deals.

For the six months ended June 30, 2022, net revenue increased 23% versus the comparable period in 2021. Excluding the impact of Special Items, adjusted net revenue increased 22%, or 27% on a currency-neutral basis, and includes 2 percentage points of growth from acquisitions. The remaining increase was primarily driven by domestic and cross-border transaction and volume growth and an increase in our Cyber & Intelligence and Data & Services solutions within other revenue. These increases were partially offset by an increase in rebates and incentives (contra-revenue) of 22%, or 25% on a currency-neutral basis, primarily due to increased volumes and transactions and new and renewed deals, which includes a 1 percentage point reduction from Special Items.

See Note 3 (Revenue) to the consolidated financial statements included in Part II, Item 8 of our Annual Report on Form 10-K for the year ended December 31, 2021 for a further discussion of how we recognize revenue.

The components of net revenue were as follows:

	Three Months Ended June 30,		Increase/ (Decrease)	Six Months Ended June 30,		Increase/ (Decrease)
	2022	2021		2022	2021	
	(\$ in millions)					
Domestic assessments	\$ 2,283	\$ 2,056	11%	\$ 4,417	\$ 3,854	15%
Cross-border volume fees	1,615	1,076	50%	3,010	2,008	50%
Transaction processing	3,061	2,612	17%	5,973	4,963	20%
Other revenues	1,745	1,475	18%	3,329	2,822	18%
Gross revenue	8,704	7,219	21%	16,729	13,647	23%
Rebates and incentives (contra-revenue)	(3,207)	(2,691)	19%	(6,065)	(4,964)	22%
Net revenue	5,497	4,528	21%	10,664	8,683	23%
Special Items ¹	(6)	—	**	(37)	—	**
Adjusted net revenue (excluding Special Items ¹)	\$ 5,491	\$ 4,528	21%	\$ 10,627	\$ 8,683	22%

Note: Table may not sum due to rounding

** Not meaningful.

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

Drivers of Change

The following tables summarize the drivers of change in net revenue:

	Three Months Ended June 30, 2022				Total
	Operational	Special Items ³	Acquisitions	Currency Impact ⁴	
Domestic assessments	13 % ¹	— %	— %	(2)%	11 %
Cross-border volume fees	61 % ¹	— %	— %	(11)%	50 %
Transaction processing	22 % ^{1,2}	— %	— %	(5)%	17 %
Other revenues	20 % ²	— %	3 %	(5)%	18 %
Rebates and incentives (contra-revenue)	23 %	— %	— %	(3)%	19 %
Net revenue	26 %	— %	1 %	(6)%	21 %

	Six Months Ended June 30, 2022				Total
	Operational	Special Items ³	Acquisitions	Currency Impact ⁴	
Domestic assessments	17 % ¹	— %	— %	(2)%	15 %
Cross-border volume fees	59 % ¹	— %	— %	(9)%	50 %
Transaction processing	24 % ^{1,2}	— %	— %	(4)%	20 %
Other revenues	17 % ²	— %	5 %	(4)%	18 %
Rebates and incentives (contra-revenue)	26 %	(1)%	— %	(3)%	22 %
Net revenue	25 %	— %	2 %	(5)%	23 %

Note: Tables may not sum due to rounding.

¹ Includes impacts from our key metrics, other non-volume based fees, pricing and mix.

² Includes impacts from our cyber and intelligence solutions fees, data analytics and consulting fees and other value-added services.

³ See "Non-GAAP Financial Information" for further information on our non-GAAP adjustments and the reconciliation to GAAP reported amounts.

⁴ Includes the translational and transactional impact of currency and the related impact of our foreign exchange derivative contracts designated as cash flow hedging instruments.

The following tables provide a summary of the trend in volumes and transactions.

	Three Months Ended June 30,				Six Months Ended June 30,			
	2022		2021		2022		2021	
	Increase/(Decrease)				Increase/(Decrease)			
	USD	Local	USD	Local	USD	Local	USD	Local
Mastercard-branded GDV ¹	8%	14%	39%	33%	10%	15%	23%	20%
United States	10%	10%	34%	34%	12%	12%	24%	24%
Worldwide less United States	7%	16%	41%	33%	9%	17%	23%	18%
Cross-border volume ¹	46%	58%	70%	58%	45%	56%	18%	11%
Mastercard-branded GDV ¹ adjusted for Russia ²	12%	19%	38%	32%	14%	20%	23%	19%
Worldwide less United States adjusted for Russia ²	14%	25%	41%	32%	15%	24%	23%	17%
Cross-border volume ¹ adjusted for Russia ²	50%	64%	69%	57%	48%	59%	17%	11%

	Three Months Ended June 30,		Six Months Ended June 30,	
	2022	2021	2022	2021
	Increase/(Decrease)		Increase/(Decrease)	
Switched transactions	12%	41%	16%	24%
Switched transactions adjusted for Russia ²	22%	39%	23%	23%

¹ Excludes volume generated by Maestro and Cirrus cards.

² 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 operating metrics excluding activity from Russian issued cards from the current and prior periods.

Operating Expenses

For the three months ended June 30, 2022, operating expenses increased 13% versus the comparable period in 2021. Adjusted operating expenses increased 9%, or 12% on a currency-neutral basis, versus the comparable period in 2021, which includes a 5 percentage point increase from acquisitions. The remaining increase was primarily due to higher personnel costs to support our continued investment in our strategic initiatives and unfavorable foreign exchange activity.

For the six months ended June 30, 2022, operating expenses increased 13% versus the comparable period in 2021. Adjusted operating expenses increased 10%, or 13% on a currency-neutral basis, versus the comparable period in 2021, which includes a 5 percentage point increase from acquisitions. The remaining increase was primarily due to higher personnel costs to support our continued investment in our strategic initiatives, increased spending on advertising and marketing and unfavorable foreign exchange activity.

The components of operating expenses were as follows:

	Three Months Ended June 30,		Increase/ (Decrease)	Six Months Ended June 30,		Increase/ (Decrease)
	2022	2021		2022	2021	
	(\$ in millions)					
General and administrative	\$ 1,947	\$ 1,718	13%	\$ 3,791	\$ 3,394	12%
Advertising and marketing	210	216	(2)%	391	335	17%
Depreciation and amortization	189	186	2%	381	349	9%
Provision for litigation	133	67	**	133	67	**
Total operating expenses	2,479	2,187	13%	4,696	4,145	13%
Special Items ¹	(166)	(67)	**	(200)	(67)	**
Adjusted total operating expenses (excluding Special Items ¹)	\$ 2,313	\$ 2,121	9%	\$ 4,496	\$ 4,079	10%

Note: Table may not sum due to rounding

** Not meaningful.

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

Drivers of Change

The following tables summarize the drivers of changes in operating expenses:

	Three Months Ended June 30, 2022				
	Operational	Special Items ¹	Acquisitions	Currency Impact ²	Total
General and administrative	9%	2%	5%	(3)%	13%
Advertising and marketing	1%	**	1%	(4)%	(2)%
Depreciation and amortization	**	**	6%	(4)%	2%
Provision for litigation	**	**	**	**	**
Total operating expenses	8%	4%	5%	(3)%	13%

	Six Months Ended June 30, 2022				
	Operational	Special Items ¹	Acquisitions	Currency Impact ²	Total
General and administrative	7%	2%	5%	(2)%	12%
Advertising and marketing	20%	**	1%	(5)%	17%
Depreciation and amortization	1%	**	11%	(3)%	9%
Provision for litigation	**	**	**	**	**
Total operating expenses	8%	3%	5%	(2)%	13%

Note: Tables may not sum due to rounding.

** Not meaningful.

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

² Represents the translational and transactional impact of currency.

General and Administrative

For the three months ended June 30, 2022, general and administrative expenses increased 13%, or 16% on a currency-neutral basis, versus the comparable period in 2021. Current period results include growth of 5 percentage points from acquisitions and 2 percentage points from Special Items. For the six months ended June 30, 2022, general and administrative expenses increased 12%, or 14% on a currency-neutral basis, versus the comparable period in 2021. Current period results include growth of 5 percentage points from acquisitions and 2 percentage points from Special Items. The remaining increase for both the three and six months ended June 30, 2022 was primarily due to higher personnel costs to support our continued investment in our strategic initiatives and balance sheet remeasurement losses due to unfavorable foreign exchange activity.

The components of general and administrative expenses were as follows:

	Three Months Ended June 30,		Increase/ (Decrease)	Six Months Ended June 30,		Increase/ (Decrease)
	2022	2021		2022	2021	
	(\$ in millions)					
Personnel ¹	\$ 1,319	\$ 1,130	17%	\$ 2,500	\$ 2,234	12%
Professional fees	109	106	3%	195	203	(4)%
Data processing and telecommunications	225	215	5%	460	415	11%
Foreign exchange activity ²	35	8	**	71	16	**
Other ¹	259	259	—%	565	526	7%
Total general and administrative expenses	\$ 1,947	\$ 1,718	13%	\$ 3,791	\$ 3,394	12%

Note: Table may not sum due to rounding.

** Not meaningful.

¹ Total general and administrative expenses for the three months ended June 30, 2022 includes a Special Item for Russia-related impacts of \$33 million, of which \$31 million is included within Personnel and \$2 million is included within Other. Total general and administrative expenses for the six months ended June 30, 2022 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.

² 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 17 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part I, Item 1 for further discussion.

Advertising and Marketing

For the three months ended June 30, 2022, advertising and marketing expenses decreased 2%, or increased 2% on a currency-neutral basis, versus the comparable period in 2021. For the six months ended June 30, 2022, advertising and marketing expenses increased 17%, or 21% on a currency-neutral basis, primarily due to an increase in spending on marketing campaigns, advertising and sponsorships.

Depreciation and Amortization

For the three and six months ended June 30, 2022, depreciation and amortization expenses increased 2% and 9%, or 6% and 12% on a currency-neutral basis, versus the comparable period in 2021, which includes growth of 6 and 11 percentage points from acquisitions, respectively, due to the amortization of acquired intangible assets.

Provision for Litigation

For the three and six months ended June 30, 2022, we recorded litigation provisions of \$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. For the three and six months ended June 30, 2021, we recorded litigation provisions of \$67 million related to litigation settlements and estimated attorneys' fees with U.K. merchants. See "Non-GAAP Financial Information" in this section for further discussion.

Other Income (Expense)

For the three months ended June 30, 2022, other income (expense) was unfavorable \$357 million, versus the comparable period in 2021, primarily due to net losses in the current period versus net gains in the prior period related to unrealized fair market value adjustments on marketable and non-marketable equity securities. Adjusted other income (expense) was favorable \$2 million versus the prior year.

For the six months ended June 30, 2022, other income (expense) was unfavorable \$527 million, versus the comparable period in 2021, primarily due to net losses in the current period versus net gains in the prior period related to unrealized fair market value adjustments on marketable and non-marketable equity securities. Adjusted other income (expense) was favorable \$2 million versus the prior year.

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

	Three Months Ended June 30,		Increase/ (Decrease)	Six Months Ended June 30,		Increase/ (Decrease)
	2022	2021		2022	2021	
	(\$ in millions)					
Investment income	\$ 7	\$ 3	**	\$ 12	\$ 4	**
Gains (losses) on equity investments, net	(117)	243	**	(193)	337	**
Interest expense	(114)	(106)	7%	(224)	(213)	5%
Other income (expense), net	4	(3)	**	8	2	**
Total other income (expense)	(220)	137	**	(397)	130	**
(Gains) losses on equity investments ¹	117	(243)	**	193	(337)	**
Adjusted total other income (expense) ¹	\$ (104)	\$ (106)	(2)%	\$ (205)	\$ (207)	(1)%

Note: Table may not sum due to rounding.

** Not meaningful.

¹ 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 were 18.7% and 16.6% for the three months ended June 30, 2022 and 2021, respectively. The adjusted effective income tax rates were 18.8% and 15.9% for the three months ended June 30, 2022 and 2021, respectively. Both the as reported and as adjusted effective income tax rates were higher versus the comparable period in 2021, primarily due to a discrete tax benefit in the prior year 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.

The effective income tax rates were 11.9% and 16.6% for the six months ended June 30, 2022 and 2021, respectively. The adjusted effective income tax rates were 12.3% and 16.4% for the six months ended June 30, 2022 and 2021, respectively. Both the as reported and as adjusted effective income tax rates were lower versus the comparable period in 2021, primarily due to a discrete tax benefit related to final U.S. tax regulations published in the current year, partially offset by a discrete tax benefit in the prior year 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. The U.S. tax 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 our ability to generate foreign tax credits starting in 2022 for certain foreign taxes paid, resulting in additional U.S. tax expense.

Liquidity and Capital Resources

We rely on existing liquidity, cash generated from operations and access to capital to fund our global operations, 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:

	June 30, 2022	December 31, 2021
	(in billions)	
Cash, cash equivalents and investments ¹	\$ 6.4	\$ 7.9
Unused line of credit	6.0	6.0

¹ 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 June 30, 2022 and December 31, 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 16 (Settlement and Other Risk Management) to the consolidated financial statements in Part I, Item 1 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 of our Annual Report on Form 10-K for the year ended December 31, 2021, Part II, Item 1A - Risk Factors of our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022 and Note 15 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part I, Item 1 of this Report.

Cash Flow

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

	Six Months Ended June 30,	
	2022	2021
	(in millions)	
Net cash provided by operating activities	\$ 4,239	\$ 3,731
Net cash used in investing activities	(812)	(4,702)
Net cash used in financing activities	(4,975)	(2,801)

Net cash provided by operating activities increased \$508 million for the six months ended June 30, 2022, versus the comparable period in 2021, primarily due to higher net income adjusted for non-cash items, partially offset by higher customer incentive payments.

Net cash used in investing activities decreased \$3,890 million for the six months ended June 30, 2022, versus the comparable period in 2021, primarily due to lower business acquisition activity in the current year.

Net cash used in financing activities increased \$2,174 million for the six months ended June 30, 2022, versus the comparable period in 2021, primarily due to higher repurchases of our Class A common stock and lower proceeds from debt issuances in the current year.

Debt and Credit Availability

In February 2022, we issued €750 million (\$788 million as of June 30, 2022) principal amount of notes due February 2029 (the "2022 EUR Notes"). Our total debt outstanding was \$14.5 billion and \$13.9 billion at June 30, 2022 and December 31, 2021, respectively, with the earliest maturity of €700 million (\$735 million as of June 30, 2022) of principal occurring in December 2022.

In July 2022, the Company entered into an unsecured INR22.7 billion (\$285 million as of the date of settlement) term loan due July 2023 (the "INR Term Loan").

As of June 30, 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. In conjunction with the Commercial Paper Program, we have a committed unsecured \$6 billion revolving credit facility (the "Credit Facility") which expires in November 2026.

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 June 30, 2022 and December 31, 2021.

See Note 10 (Debt) to the consolidated financial statements included in Part I, Item 1 for further discussion on our debt and Note 15 (Debt) to the consolidated financial statements included in Part II, Item 8 of our Annual Report on Form 10-K for the year ended December 31, 2021 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.

Aggregate payments for quarterly dividends totaled \$956 million for the six months ended June 30, 2022.

On November 30, 2021, our Board of Directors declared a quarterly cash dividend of \$0.49 per share paid on February 9, 2022 to holders of record on January 7, 2022 of our Class A common stock and Class B common stock. The aggregate amount of this dividend was \$479 million.

On February 8, 2022, our Board of Directors declared a quarterly cash dividend of \$0.49 per share paid on May 9, 2022 to holders of record on April 8, 2022 of our Class A common stock and Class B common stock. The aggregate amount of this dividend was \$477 million.

On June 20, 2022, our Board of Directors declared a quarterly cash dividend of \$0.49 per share payable on August 9, 2022 to holders of record on July 8, 2022 of our Class A common stock and Class B common stock. The aggregate amount of this dividend is estimated to be \$474 million.

Repurchased shares of our common stock are considered treasury stock. In 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 \$8.0 billion and \$6.0 billion, respectively. The program approved in 2021 became effective in May 2022 after completion of the share repurchase program authorized in 2020. 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 June 30, 2022:

	(in millions, except average price data)	
Remaining authorization at December 31, 2021	\$	11,927
Dollar value of shares repurchased during the six months ended June 30, 2022	\$	4,788
Remaining authorization at June 30, 2022	\$	7,139
Shares repurchased during the six months ended June 30, 2022		13.7
Average price paid per share during the six months ended June 30, 2022	\$	350.10

Recent Accounting Pronouncements

For a description of recent accounting pronouncements, if any, and the potential impact of these pronouncements refer to Note 1 (Summary of Significant Accounting Policies) to the consolidated financial statements included in Part I, Item 1.

Item 3. 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 17 (Derivative and Hedging Instruments) to the consolidated financial statements included in Part I, Item 1.

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 \$73 million and \$70 million on our foreign exchange derivative contracts outstanding at June 30, 2022 and December 31, 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. 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 June 30, 2022 and December 31, 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 \$273 million and \$165 million on our foreign exchange derivative contracts designated as a net investment hedge at June 30, 2022 and December 31, 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 June 30, 2022 and December 31, 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 \$41 million and \$49 million on our interest rate derivative contracts designated as a fair value hedge of our fixed-rate debt at June 30, 2022 and December 31, 2021, respectively, before considering the offsetting effect of the underlying hedged activity.

Item 4. 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 that is required to be disclosed in the reports 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 the end of the period covered by this Report and, based on their evaluation, have concluded that the disclosure controls and procedures were effective as of such date.

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 June 30, 2022 that has materially affected, or is reasonably likely to materially affect, Mastercard's internal control over financial reporting.

PART II

Item 1. Legal proceedings

Item 1A. Risk factors

Item 2. Unregistered sales of equity securities and use of proceeds

Item 5. Other information

Item 6. Exhibits

Signatures

Item 1. Legal proceedings

Refer to Note 15 (Legal and Regulatory Proceedings) to the consolidated financial statements included in Part I, Item 1.

Item 1A. Risk factors

For a discussion of our risk factors, see Part I, Item 1A - Risk Factors of our Annual Report on Form 10-K for the year ended December 31, 2021 and Part II, Item 1A - Risk Factors of our Quarterly Report on Form 10-Q for the quarter ended March 31, 2022.

Item 2. Unregistered sales of equity securities and use of proceeds

Issuer Purchases of Equity Securities

During the second quarter of 2022, we repurchased 6.9 million shares for \$2.4 billion at an average price of \$345.17 per share of Class A common stock. The following table presents our repurchase activity on a cash basis during the second 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 ^{1,2}
April 1 - 30	2,105,718	\$ 357.73	2,105,718	\$ 8,765,950,568
May 1 - 31	2,481,832	341.59	2,481,832	7,918,182,527
June 1 - 30	2,307,755	337.55	2,307,755	7,139,198,823
Total	6,895,305	345.17	6,895,305	

¹ Dollar value of shares that may yet be purchased under the repurchase programs is as of the end of the period.

² In 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 \$8.0 billion and \$6.0 billion, respectively.

Item 5. 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.

Item 6. Exhibits

Refer to the Exhibit Index included herein.

Exhibit index

Exhibit Number	Exhibit Description
3.1	Amended and Restated Certificate of Incorporation of Mastercard Incorporated (incorporated by reference to Exhibit 3.1 of the Company's Current Report on Form 8-K filed on June 24, 2022 (File No. 001-32877)).
3.2	Amended and Restated By-Laws of Mastercard Incorporated (incorporated by reference to Exhibit 3.2 of the Company's Current Report on Form 8-K filed on June 24, 2022 (File No. 001-32877)).
10.1*	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).
10.2*	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).
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.

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.

**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 quarterly report of Mastercard Incorporated (the "Company") on Form 10-Q for the three month period ended June 30, 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.

July 28, 2022

/s/ Michael Miebach

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 quarterly report of Mastercard Incorporated (the "Company") on Form 10-Q for the three month period ended June 30, 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.

July 28, 2022

/s/ Sachin Mehra

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, each having acquired transactions for an Iranian airline that accepted Mastercard cards in these regions
- an acquirer located in the Europe region having acquired transactions for consular services with an entity located within an Iranian embassy in that region that accepted Mastercard cards.

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 ended June 30, 2022. Both the number of transactions and our estimated net revenue and net profits for this period are de minimis.