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400 South LaSalle Street Chicago, Illinois 60605  
(Address of Principal Executive Offices) (Zip Code)

(312) 786 5600

(Registrant's telephone number, including area code)

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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or 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.

Large accelerated filer Accelerated filer Non-accelerated filer (Do not check if a smaller reporting company)

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 Exchange Act). Yes No

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Indicate the number of shares outstanding of each of the registrant's classes of common stock, as of the latest practicable date:

Class	July 27, 2018
Common Stock, par value \$0.01	111,818,750 shares

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CERTAIN DEFINED TERMS

Throughout this document, unless otherwise specified or the context so requires:

- "Cboe," "we," "us," "our" or "the Company" refers to Cboe Global Markets, Inc. and its subsidiaries.
- "ADV" means average daily volume.
- "ADNV" means average daily notional value.
- "Bats Global Markets" and "Bats" refer to our wholly-owned subsidiary Bats Global Markets, Inc., now known as Cboe Bats, LLC, and its subsidiaries.
- "BYX" refers to Cboe BYX Exchange, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "BZX" refers to Cboe BZX Exchange, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "C2" refers to Cboe C2 Exchange, Inc. a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "Cboe Chi-X Europe" refers to our broker-dealer entity, Cboe Chi-X Europe Limited, a wholly-owned subsidiary of Cboe Global Markets, Inc., operated in the United Kingdom.
- "Cboe Europe Equities" refers to Cboe Europe Limited, a wholly-owned subsidiary of Cboe Global Markets, Inc., the U.K. operator of our Multilateral Trading Facility ("MTF"), and our Regulated Market ("RM"), under its Recognized Investment Exchange ("RIE") status.
- "Cboe FX" refers to Cboe FX Holdings, LLC, a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "Cboe Options" refers to Cboe Exchange, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "Cboe SEF" refers to Cboe SEF, LLC, our swap execution facility that is a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "Cboe Trading" refers to our broker-dealer entity, Cboe Trading, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc., operated in the United States.
- "CFE" refers to Cboe Futures Exchange, LLC, a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "CFTC" refers to the U.S. Commodity Futures Trading Commission.
- "EDGA" refers to Cboe EDGA Exchange, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc.
- "EDGX" refers to Cboe EDGX Exchange, Inc., a wholly-owned subsidiary of Cboe Global Markets, Inc.
  - "Exchanges" refers to Cboe Options, C2, BZX, BYX, EDGX, and EDGA.
- "FASB" refers to the Financial Accounting Standards Board.
- "FCA" refers to the U.K. Financial Conduct Authority.
- "GAAP" refers to Generally Accepted Accounting Principles in the United States.
  - "Merger" refers to our acquisition of Bats Global Markets, completed on February 28, 2017.
- "OCC" refers to The Options Clearing Corporation.
- "OPRA" refers to Options Price Reporting Authority, LLC.
- "SEC" refers to the U.S. Securities and Exchange Commission.
- "SPX" refers to our S&P 500 Index exchange-traded options products.
- "VIX" refers to the Cboe Volatility Index methodology.

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TRADEMARK AND OTHER INFORMATION

Cboe®, Bats®, BYX®, BZX®, Cboe Options Institute®, Cboe Vest®, Cboe Volatility Index®, CFE®, EDGA®, EDGX®, LiveVol® and VIX® are registered trademarks, and Cboe Global MarketsSM, Cboe Futures ExchangeSM, C2SM, SilexxSM and SPXSM and are service marks of Cboe Global Markets, Inc. and its subsidiaries. Standard & Poor's®, S&P®, S&P 100® and S&P 500® are registered trademarks of Standard & Poor's Financial Services LLC and have been licensed for use by Cboe Exchange, Inc. Dow Jones®, Dow Jones Industrial Average®, DJIA® and Dow Jones Indexes are registered trademarks or service marks of Dow Jones Trademark Holdings, LLC, used under license. MSCI, and the MSCI index names are service marks of MSCI Inc., used under license. Russell® and the Russell index names are registered trademarks of Frank Russell Company, used under license. FTSE® and the FTSE indexes are trademarks and service marks of FTSE International Limited, used under license. All other trademarks and service marks are the property of their respective owners.

This Quarterly Report on Form 10-Q includes market share and industry data that we obtained from industry publications and surveys, reports of governmental agencies and internal company surveys. Industry publications and surveys generally state that the information they contain has been obtained from sources believed to be reliable, but we cannot assure you that this information is accurate or complete. We have not independently verified any of the data from third-party sources nor have we ascertained the underlying economic assumptions relied upon therein. Statements as to our market position are based on the most currently available market data. While we are not aware of any misstatements regarding industry data presented herein, our estimates involve risks and uncertainties and are subject to change based on various factors. We refer you to the “Risk Factors” in Part II, Item 1A of this Quarterly Report on Form 10-Q and our other filings with the SEC.

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FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10 Q contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 that involve a number of risks and uncertainties. You can identify these statements by forward-looking words such as "may," "might," "should," "expect," "plan," "anticipate," "believe," "estimate," "predict," "potential" or "continue," and the negative of these terms and other comparable terminology. All statements that reflect our expectations, assumptions or projections about the future other than statements of historical fact are forward-looking statements, including statements in the "Management's Discussion and Analysis of Financial Condition and Results of Operations" section of this report. These forward-looking statements, which are subject to known and unknown risks, uncertainties and assumptions about us, may include projections of our future financial performance based on our growth strategies and anticipated trends in our business. These statements are only predictions based on our current expectations and projections about future events. There are important factors that could cause our actual results, level of activity, performance or achievements to differ materially from that expressed or implied by the forward-looking statements. In particular, you should consider the risks and uncertainties described under "Risk Factors" in Part II, Item 1A of this Quarterly Report on Form 10 Q and our other filings with the SEC.

While we believe we have identified the risks that are material to us, these risks and uncertainties are not exhaustive. Moreover, we operate in a very competitive and rapidly changing environment. New risks and uncertainties emerge from time to time, and it is not possible to predict all risks and uncertainties, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements.

Some factors that could cause actual results to differ include:

- the loss of our right to exclusively list and trade certain index options and futures products;
- economic, political and market conditions;
- compliance with legal and regulatory obligations;
- price competition and consolidation in our industry;
- decreases in trading volumes, market data fees or a shift in the mix of products traded on our exchanges;
- legislative or regulatory changes;
- increasing competition by foreign and domestic entities;
- our dependence on and exposure to risk from third parties;
- our index providers' ability to maintain the quality and integrity of their indexes and to perform under our agreements;
- our ability to operate our business without violating the intellectual property rights of others and the costs associated with protecting our intellectual property rights;
- our ability to attract and retain skilled management and other personnel, including those experienced with post-acquisition integration;
- our ability to accommodate trading volume and transaction traffic, including significant increases, without failure or degradation of performance of our systems;

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- our ability to protect our systems and communication networks from security risks, including cyber-attacks and unauthorized disclosure of confidential information;
- challenges to our use of open source software code;
- our ability to meet our compliance obligations, including managing potential conflicts between our regulatory responsibilities and our for-profit status;
- damage to our reputation;
  - the ability of our compliance and risk management methods to effectively monitor and manage our risks;
- our ability to manage our growth and strategic acquisitions or alliances effectively;
- unanticipated difficulties or expenditures relating to the Merger, including, without limitation, difficulties that result in the failure to realize expected synergies, accretion, efficiencies and cost savings from the Merger within the expected time period (if at all), whether in connection with integration, migrating trading platforms, broadening distribution of product offerings or otherwise;
- restrictions imposed by our debt obligations;
- our ability to maintain an investment grade credit rating;
- potential difficulties in our migration of trading platforms and our ability to retain employees as a result of the Merger; and
- the accuracy of our estimates and expectations.

For a detailed discussion of these and other factors that might affect our performance, see Part II, Item 1A of this Report. We do not undertake, and expressly disclaim, any duty to update any forward-looking statement whether as a result of new information, future events or otherwise, except as required by law. We caution you not to place undue reliance on the forward-looking statements, which speak only as of the date of this filing.



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## PART I—FINANCIAL INFORMATION

## Item 1. Financial Statements.

## Cboe Global Markets, Inc. and Subsidiaries

## Condensed Consolidated Balance Sheets

(unaudited)

(in millions, except par value data and share amounts)

	June 30, 2018	December 31, 2017
Assets		
Current Assets:		
Cash and cash equivalents	\$ 140.0	\$ 143.5
Financial investments	131.8	47.3
Accounts receivables, net	252.2	217.3
Income taxes receivable	46.9	17.2
Other current assets	13.1	9.4
Total Current Assets	584.0	434.7
Investments	88.7	82.7
Land	4.9	4.9
Property and equipment, net	65.4	73.9
Goodwill	2,701.3	2,707.4
Intangible assets, net	1,813.0	1,902.6
Other assets, net	59.6	59.5
Total Assets	\$ 5,316.9	\$ 5,265.7
Liabilities, Redeemable Noncontrolling Interest and Stockholders' Equity		
Current Liabilities:		
Accounts payable and accrued liabilities	\$ 170.9	\$ 153.8
Section 31 fees payable	189.9	105.6
Deferred revenue	17.4	15.4
Income taxes payable	—	2.6
Current portion of long-term debt	299.5	—
Contingent consideration liabilities	2.2	56.6
Total Current Liabilities	679.9	334.0
Long-term debt	914.6	1,237.9
Income tax liability	81.1	78.8
Deferred income taxes	473.5	488.2
Other non-current liabilities	8.8	6.8
Commitments and Contingencies		
Redeemable Noncontrolling Interest	9.4	9.4
Stockholders' Equity:		

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Preferred stock, \$0.01 par value: 20,000,000 shares authorized, no shares issued and outstanding at June 30, 2018 and December 31, 2017	—	—
Common stock, \$0.01 par value: 325,000,000 shares authorized, 125,040,472 and 112,107,466 shares issued and outstanding, respectively at June 30, 2018 and 124,705,786 and 112,741,217 shares issued and outstanding, respectively at December 31, 2017	1.2	1.2
Common stock in treasury, at cost, 12,933,006 shares at June 30, 2018 and 11,964,569 shares at December 31, 2017	(665.9)	(558.3)
Additional paid-in capital	2,646.1	2,623.7
Retained earnings	1,134.0	993.3
Accumulated other comprehensive income, net	34.2	50.7
Total Stockholders' Equity	3,149.6	3,110.6
Total Liabilities, Redeemable Noncontrolling Interest and Stockholders' Equity	\$ 5,316.9	\$ 5,265.7

See accompanying notes to condensed consolidated financial statements.

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Cboe Global Markets, Inc. and Subsidiaries

Condensed Consolidated Statements of Income

(unaudited)

(in millions, except per share data)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Revenues:				
Transaction fees	\$ 464.8	\$ 453.9	\$ 1,011.9	\$ 710.3
Access fees	31.2	29.7	59.8	47.5
Exchange services and other fees	21.0	19.9	43.0	35.3
Market data fees	52.5	48.0	106.7	70.5
Regulatory fees	89.3	83.3	205.6	121.6
Other revenue	8.7	6.0	18.2	11.8
Total revenues	667.5	640.8	1,445.2	997.0
Cost of revenues:				
Liquidity payments	271.1	266.5	574.0	371.8
Routing and clearing	9.8	12.2	20.1	18.5
Section 31 fees	81.1	74.6	189.9	104.6
Royalty fees	22.0	20.6	49.2	41.8
Total cost of revenues	384.0	373.9	833.2	536.7
Revenues less cost of revenues	283.5	266.9	612.0	460.3
Operating expenses:				
Compensation and benefits	57.4	50.0	116.3	97.8
Depreciation and amortization	50.4	55.8	104.6	80.9
Technology support services	11.8	12.0	23.9	19.5
Professional fees and outside services	17.3	16.9	35.3	31.3
Travel and promotional expenses	3.5	4.2	7.2	7.5
Facilities costs	2.9	2.7	5.3	4.8
Acquisition-related costs	8.6	4.7	17.4	69.9
Other expenses	2.5	2.8	5.2	4.7
Total operating expenses	154.4	149.1	315.2	316.4
Operating income	129.1	117.8	296.8	143.9
Non-operating (expenses) income:				
Interest expense, net	(9.3)	(12.5)	(18.9)	(20.4)
Other income	—	0.8	1.3	0.9
Income before income tax provision	119.8	106.1	279.2	124.4
Income tax provision	36.8	38.1	78.1	41.2
Net income	83.0	68.0	201.1	83.2
Net loss attributable to redeemable noncontrolling interest	0.3	0.3	0.6	0.6
Net income excluding redeemable noncontrolling interest	83.3	68.3	201.7	83.8
Change in redemption value of redeemable noncontrolling interest	(0.3)	(0.3)	(0.6)	(0.6)
Net income allocated to participating securities	(0.6)	(0.7)	(1.4)	(0.8)

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Net income allocated to common stockholders	\$ 82.4	\$ 67.3	\$ 199.7	\$ 82.4
Basic earnings per share	\$ 0.74	\$ 0.60	\$ 1.78	\$ 0.81
Diluted earnings per share	\$ 0.73	\$ 0.60	\$ 1.77	\$ 0.81
Basic weighted average shares outstanding	112.0	112.1	112.2	102.1
Diluted weighted average shares outstanding	112.3	112.5	112.6	102.3

See accompanying notes to condensed consolidated financial statements.

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Cboe Global Markets, Inc. and Subsidiaries

Condensed Consolidated Statements of Comprehensive Income

(unaudited)

(in millions)

	Three Months Ended		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017
Net income	\$ 83.0	\$ 68.0	\$ 201.1	\$ 83.2
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	(40.9)	27.1	(15.5)	30.2
Unrealized holding gains on financial investments	—	0.3	—	0.2
Post-retirement benefit obligations	(0.4)	—	(1.0)	—
Comprehensive income	41.7	95.4	184.6	113.6
Comprehensive loss attributable to redeemable noncontrolling interest	0.3	0.3	0.6	0.6
Comprehensive income excluding redeemable noncontrolling interest	42.0	95.7	185.2	114.2
Change in redemption value of redeemable noncontrolling interest	(0.3)	(0.3)	(0.6)	(0.6)
Comprehensive income allocated to participating securities	(0.6)	(0.9)	(1.4)	(1.0)
Comprehensive income allocated to common stockholders, net of tax	\$ 41.1	\$ 94.5	\$ 183.2	\$ 112.6

See accompanying notes to condensed consolidated financial statements.

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Cboe Global Markets, Inc. and Subsidiaries

Condensed Consolidated Statement of Changes in Stockholders' Equity

Six months ended June 30, 2018

(unaudited)

(in millions, except per share amount)

	Preferred Stock	Common Stock	Treasury Stock	Additional paid-in capital	Retained earnings	Accumulated other comprehensive income (loss), net	Total stockholders' equity	Redeemable Noncontrolling Interest
Balance at December 31, 2017	\$ —	\$ 1.2	\$ (558.3)	\$ 2,623.7	\$ 993.3	\$ 50.7	\$ 3,110.6	\$ 9.4
Cash dividends on common stock of \$0.27 per share	—	—	—	—	(61.0)	—	(61.0)	—
Stock-based compensation	—	—	—	21.0	—	—	21.0	—
Common stock repurchased from employee stock plans	—	—	(15.8)	1.4	—	—	(14.4)	—
Purchase of common stock	—	—	(91.8)	—	—	—	(91.8)	—
Net income excluding noncontrolling interest	—	—	—	—	201.7	—	201.7	—
Other comprehensive income	—	—	—	—	—	(16.5)	(16.5)	—
Net loss attributable to redeemable noncontrolling interest	—	—	—	—	0.6	—	0.6	(0.6)
Redemption value adjustment of redeemable noncontrolling interest	—	—	—	—	(0.6)	—	(0.6)	0.6

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Balance at June									
30, 2018	\$ —	\$ 1.2	\$ (665.9)	\$ 2,646.1	\$ 1,134.0	\$ 34.2	\$ 3,149.6	\$ 9.4	

See accompanying notes to condensed consolidated financial statements.

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Cboe Global Markets, Inc. and Subsidiaries

Condensed Consolidated Statements of Cash Flows

(unaudited)

(in millions)

	Six Months Ended	
	June 30,	
	2018	2017
Cash Flows from Operating Activities:		
Net income	\$ 201.1	\$ 83.2
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	104.6	80.9
Amortization of debt issuance cost and debt discount	1.3	1.0
Change in fair value of contingent consideration	2.2	0.7
Realized gain on financial investments	(0.7)	(0.2)
Provision for deferred income taxes	(13.3)	(15.0)
Stock-based compensation expense	21.0	30.1
Loss on disposition of property	0.5	—
Impairment of data processing software	—	14.9
Equity in investments	(1.2)	(0.1)
Excess tax benefit from stock-based compensation	—	5.7
Changes in assets and liabilities:		
Accounts receivable	(35.0)	(33.9)
Income taxes receivable	(29.7)	48.3
Other current assets	(7.4)	(8.4)
Accounts payable and accrued liabilities	18.8	9.1
Section 31 fees payable	84.3	2.9
Deferred revenue	2.0	6.7
Income taxes payable	(3.6)	(50.1)
Income tax liability	2.3	(3.9)
Other liabilities	2.1	0.2
Net Cash Flows provided by (used in) Operating Activities	349.3	172.1
Cash Flows from Investing Activities:		
Acquisitions, net of cash acquired	—	(1,405.4)
Purchases of financial investments	(130.7)	(89.2)
Proceeds from maturities of financial investments	46.9	45.0
Other	(1.0)	1.4
Purchases of property and equipment	(12.6)	(19.2)
Net Cash Flows used in Investing Activities	(97.4)	(1,467.4)
Cash Flows from Financing Activities:		
Proceeds from long-term debt	300.0	1,944.2
Principal payments of long term debt	(325.0)	(525.0)
Proceeds from credit facility	15.0	—



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Payments of credit facility	(15.0)	—
Debt issuance costs	(0.1)	(1.3)
Dividends paid	(61.0)	(56.7)
Purchase of unrestricted stock from employees	(15.8)	(16.0)
Proceeds from exercise of stock-based compensation	0.5	1.3
Payment of contingent consideration from acquisition	(56.6)	—
Purchase of common stock under announced program	(91.8)	—
Net Cash Flows provided by (used in) Financing Activities	(249.8)	1,346.5
Effect of Foreign Currency Exchange Rate Changes on Cash and Cash equivalents	(5.6)	0.1
Decrease in Cash and Cash Equivalents	(3.5)	51.3
Cash and Cash Equivalents:		
Beginning of Period	143.5	97.3
End of Period	\$ 140.0	\$ 148.6
Supplemental disclosure of cash transactions:		
Cash paid for income taxes	\$ 122.2	\$ —
Interest paid	18.9	—
Supplemental disclosure of noncash transactions:		
Forfeiture of common stock for payment of exercise of stock options	—	1.7
Supplemental disclosure of noncash investing activities:		
Accounts receivable acquired	—	117.8
Financial investments acquired	—	66.0
Property and equipment acquired	—	21.8
Goodwill acquired	—	2,649.3
Intangible assets acquired	—	2,000.0
Other assets acquired	—	32.8
Accounts payable and accrued expenses assumed	—	(60.1)
Section 31 fees payable acquired	—	(143.6)
Deferred tax liability acquired	—	(718.5)
Other liabilities assumed	—	(135.4)
Issuance of common stock related to acquisition	—	(2,424.7)

See accompanying notes to condensed consolidated financial statements.

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Cboe Global Markets, Inc. and Subsidiaries

Notes to Condensed Consolidated Financial Statements (unaudited)

1. ORGANIZATION AND BASIS OF PRESENTATION

Cboe Global Markets, Inc. is one of the world's largest exchange holding companies, offering cutting-edge trading and investment solutions to investors around the world. The Company is committed to relentless innovation, connecting global markets with world-class technology, and providing seamless solutions that enhance the customer experience.

Cboe offers trading across a diverse range of products in multiple asset classes and geographies, including options, futures, U.S. and European equities, exchange-traded products (ETPs), global foreign exchange (FX) and multi-asset volatility products based on the VIX, the world's barometer for equity market volatility.

Cboe's trading venues include the largest options exchange in the U.S. by volume and the largest stock exchange by value traded in Europe. In addition, the Company is the second-largest stock exchange operator by volume in the U.S. and a leading market globally for ETP trading.

The Company is headquartered in Chicago with offices in Kansas City, New York, London, San Francisco, Singapore, Hong Kong, and Ecuador.

Basis of Presentation

These interim unaudited condensed consolidated financial statements have been prepared in accordance with GAAP for interim financial information and with the instructions to Form 10 Q and should be read in conjunction with the consolidated financial statements and notes thereto contained in the Company's Annual Report on Form 10 K for the year ended December 31, 2017.

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosures of contingent assets and liabilities, valuation of redeemable noncontrolling interest and reported amounts of revenues and expenses. On an ongoing basis, management evaluates its estimates based upon historical experience, observance of trends, information available from outside sources and various other assumptions that management believes to be reasonable under the circumstances. Actual results may differ from these estimates under different conditions or assumptions.

In the opinion of management, all adjustments (consisting of normal recurring adjustments) considered necessary for a fair presentation of financial position, results of operations and cash flows at the dates and for the periods presented have been included.

The results of operations for interim periods are not necessarily indicative of the results of operations for the full year.

For those consolidated subsidiaries in which the Company's ownership is less than 100% and for which the Company has control over the assets and liabilities and the management of the entity, the outside stockholders' interest are shown as noncontrolling interest.

Segment information

The Company reports five business segments: Options, U.S. Equities, Futures, European Equities, and Global FX, which is reflective of how the Company's chief operating decision-maker reviews and operates the business (Note 15).

Recent Accounting Pronouncements - Adopted

In the first quarter of 2018, the Company adopted ASU 2017 09, Compensation - Stock Compensation (Topic 718). The ASU provides additional guidance around which changes to a share-based payment award require an entity to

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Cboe Global Markets, Inc. and Subsidiaries

Notes to Condensed Consolidated Financial Statements (unaudited)

apply modification accounting. The Company's application of the pronouncement, on a prospective basis, did not result in a material impact to the consolidated financial statements.

In the first quarter of 2018, the Company adopted ASU 2017 07, Compensation - Retirement Benefits (Topic 715). This ASU requires an employer to report the service cost component in the same line item or items as other compensation costs arising from services rendered by the pertinent employees during the period. The other components are required to be presented in the income statement separately from the service cost component and outside a subtotal of income from operations. The Company applied the full retrospective application of the pronouncement, which did not result in a material impact to the consolidated financial statements.

In the first quarter of 2018, the Company adopted ASU 2016 15, Statement of Cash Flows (Topic 230) — Classification of Certain Cash Receipts and Cash Payments (a consensus of the FASB Emerging Issues Task Force). ASU No. 2016 15 addresses eight specific cash flow issues in an effort to reduce diversity in practice: (1) debt prepayment or debt extinguishment costs; (2) settlement of zero-coupon bonds; (3) contingent consideration payments made after a business combination; (4) proceeds from the settlement of insurance claims; (5) proceeds from the settlement of corporate-owned life insurance policies, including bank-owned life insurance policies; (6) distributions received from equity method investees; (7) beneficial interests in securitization transactions; and (8) separately identifiable cash flows and application of the predominance principle. The Company's application of the pronouncement did not result in a material impact to the consolidated financial statements.

In the first quarter of 2018, the Company adopted ASU 2017 01, Business Combinations (Topic 805) - Clarifying the Definition of a Business. ASU No. 2017 01 clarifies the definition of a business with the objective of adding guidance to assist entities with evaluating whether transactions should be accounted for as acquisitions (or disposals) of assets or businesses. There are three elements of a business: inputs, processes, and outputs. While an integrated set of assets and activities (collectively, a "set") that is a business usually has outputs, outputs are not required to be present. Additionally, all of the inputs and processes that a seller uses in operating a set are not required if market participants can acquire the set and continue to produce outputs. ASU No. 2017 01 provides a screen to determine when a set is not a business. The screen requires that when substantially all of the fair value of the gross assets acquired (or disposed of) is concentrated in a single identifiable asset or a group of similar identifiable assets, the set is not a business. This screen reduces the number of transactions that need to be further evaluated. If, however, the screen is not met, then the amendments in this ASU (1) require that to be considered a business, a set must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output and (2) remove the evaluation of whether a market participant could replace missing elements. Finally, the amendments in this ASU narrow the definition of the term "output" so that it is consistent with the manner in which outputs are described in Topic 606 - Revenue from Contracts with Customers. The Company will apply the pronouncement, on a prospective basis, for any business combination.

In the first quarter of 2018, the Company adopted ASU 2016-01, Financial Instruments – Overall (Subtopic 825-10) – Recognition and Measurement of Financial Assets and Financial Liabilities. ASU No. 2016-01 addresses certain aspects of recognition, measurement, presentation, and disclosure of financial instruments. The changes primarily relate to equity investments, financial liabilities measured using the fair value option, and updated disclosure requirements. The Company applied the full retrospective application of the pronouncement, which did not result in a material impact to the consolidated financial statements.

In the first quarter of 2018, the Company adopted ASU 2018-02, Income Statement - Reporting Comprehensive Income (Topic 220) - Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income. This update addresses the reclassification from accumulated other comprehensive income to retained earnings for stranded tax effects resulting from the tax reform legislation commonly referred to as the Tax Cuts and Jobs Act (“Jobs Act”). The guidance eliminates the stranded tax effects resulting from the Jobs Act as well as improves the usefulness of information reported to financial statement users by requiring certain disclosures about stranded tax effects. As the amendment only relates to reclassification of the income tax effects of the Jobs Act, the underlying guidance that

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requires that the effect of a change in tax laws or rates be included in income from continuing operations is not affected. The Company's application of the pronouncement did not result in a material impact to the consolidated financial statements.

Recent Accounting Pronouncements - Issued, not yet Adopted

In January 2017, the FASB issued ASU 2017 04, Intangibles-Goodwill and Other (Topic 350) - Simplifying the Test for Goodwill Impairment. This ASU simplifies the manner in which an entity is required to test goodwill for impairment by eliminating Step 2 from the goodwill impairment test. Step 2 measures a goodwill impairment loss by comparing the implied fair value of a reporting unit's goodwill with the carrying amount of that goodwill. In computing the implied fair value of goodwill under Step 2, an entity, prior to the amendments in ASU No. 2017 04, had to perform procedures to determine the fair value at the impairment testing date of its assets and liabilities, including unrecognized assets and liabilities, in accordance with the procedure that would be required in determining the fair value of assets acquired and liabilities assumed in a business combination. However, under this ASU, an entity should (1) perform its annual or interim goodwill impairment test by comparing the fair value of a reporting unit with its carrying amount, and (2) recognize an impairment charge for the amount by which the carrying amount exceeds the reporting unit's fair value, with the understanding that the loss recognized should not exceed the total amount of goodwill allocated to that reporting unit. Additionally, ASU No. 2017 04 removes the requirements for any reporting unit with a zero or negative carrying amount to perform a qualitative assessment and, if it fails such qualitative test, to perform Step 2 of the goodwill impairment test. For public entities, the update is effective for annual or any interim goodwill impairment tests in fiscal years beginning after December 15, 2019. Early adoption is permitted for interim or annual goodwill impairment tests performed on testing dates after January 1, 2017. The Company is in the process of evaluating this guidance and assessing the impact the ASU could have on the consolidated financial statements.

In February 2016, the FASB issued ASU 2016 02, Leases. This update requires a lessee to recognize on the balance sheet a liability to make lease payments and a corresponding right-of-use asset ("ROU"). The guidance also requires certain qualitative and quantitative disclosures about the amount, timing and uncertainty of cash flows arising from leases. This update is effective for annual and interim periods beginning after December 15, 2018. Early adoption is permitted. Based on the Company's preliminary evaluation of the guidance, the ASU is expected to have a material impact on the consolidated balance sheets, but is not expected to have a material impact on the consolidated income statements. The most significant impact is expected to be the recognition of ROU assets and lease liabilities for operating leases. The Company is in the process of analyzing its lease portfolio, developing processes and finalizing accounting policies to comply with the ASU's adoption requirements.

## 2. REVENUE RECOGNITION

As of January 1, 2017, the Company adopted ASU 2014 09 Revenue from Contracts with Customers - Topic 606 and all subsequent ASUs that modified ASC 606.

The main types of revenue contracts are:

- Transaction fees - Transaction fees represent fees charged by the Company for the performance obligation of executing a trade on its markets. These fees can be variable based on trade volume tiered discounts, however, as all tiered discounts are calculated monthly, the actual discount is recorded on a monthly basis. Transaction fees, as well as any tiered volume discounts, are calculated and billed monthly in accordance with the Company's published fee

schedules. Transaction fees are recognized across all segments. The Company also pays liquidity payments to customers based on its published fee schedules. The Company uses these payments to improve the liquidity on its markets and therefore recognizes those payments as a cost of revenue.

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- Access fees - Access fees represent fees assessed for the opportunity to trade, including fees for trading-related functionality across all segments. These fees are billed monthly in accordance with the Company's published fee schedules and recognized on a monthly basis when the performance obligation is met. There is no remaining performance obligation after revenue is recognized.
- Exchange services and other fees - To facilitate trading, the Company offers technology services, terminal and other equipment rights, maintenance services, trading floor space and telecommunications services. Trading floor and equipment rights are generally on a month-to-month basis. Facilities, systems services and other fees are generally monthly fee-based, although certain services are influenced by trading volume or other defined metrics, while others are based solely on demand. All fees associated with the trading floor are recognized in the Options segment.
- Market data fees - Market data fees represent the fees received by the Company from the U.S. tape plans and fees charged to customers for proprietary market data. Fees from the U.S. tape plans are collected monthly based on published fee schedules and distributed quarterly to the U.S. exchanges based on a known formula. A contract for proprietary market data is entered into and charged on a monthly basis in accordance with the Company's published fee schedules as the service is provided. Both types of market data are satisfied over time, and revenue is recognized on a monthly basis as the customer receives and consumes the benefit as the Company provides the data. U.S. tape plan market data is recognized in the U.S. Equities and Options segments. Proprietary market data fees are recognized across all segments.
- Regulatory fees - There are two types of regulatory fees that the Company recognizes. The first type represents fees collected by the Company to cover the Section 31 fees charged to the Exchanges by the SEC. The fees charged to customers are based on the fee set by the SEC per notional value of the transaction executed on the Company's U.S. securities markets. These fees are calculated and billed monthly and are recognized in the U.S. Equities and Options segments. As the Exchanges are responsible for the ultimate payment to the SEC, the exchanges are considered the principal in these transactions. Regulatory fees also includes the options regulatory fee (ORF) which supports the Company's regulatory oversight function in the Options segment and other miscellaneous regulatory fees.
- Other revenue - Other revenue primarily includes revenue from various licensing agreements, all fees related to the trade reporting facility operated in the European Equities segment, and revenue associated with advertisements through the Company's website.



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All revenue recognized in the income statement is considered to be revenue from contracts with customers. The following table depicts the disaggregation of revenue according to product line and segment (in millions):

	Options	U.S. Equities	Futures	European Equities	Global FX	Corporate items and eliminations	Total
Three Months Ended							
June 30, 2018							
Transaction fees	\$ 189.0	\$ 211.9	\$ 26.9	\$ 24.2	\$ 12.8	\$ —	\$ 464.8
Access fees	14.5	11.4	2.1	2.2	1.0	—	31.2
Exchange services and other fees	9.9	7.3	1.7	1.5	0.6	—	21.0
Market data fees	10.6	36.6	1.8	3.4	0.1	—	52.5
Regulatory fees	15.5	73.7	0.1	—	—	—	89.3
Other revenue	4.6	2.3	—	1.6	—	0.2	8.7
	\$ 244.1	\$ 343.2	\$ 32.6	\$ 32.9	\$ 14.5	\$ 0.2	\$ 667.5
Timing of revenue recognition							
Services transferred at a point in time	\$ 209.1	\$ 287.9	\$ 27.0	\$ 25.8	\$ 12.8	\$ 0.2	\$ 562.8
Services transferred over time	35.0	55.3	5.6	7.1	1.7	—	104.7
	\$ 244.1	\$ 343.2	\$ 32.6	\$ 32.9	\$ 14.5	\$ 0.2	\$ 667.5
Three Months Ended							
June 30, 2017							
Transaction fees	\$ 181.2	\$ 208.3	\$ 34.0	\$ 20.8	\$ 9.6	\$ —	\$ 453.9
Access fees	13.9	12.7	0.5	1.8	0.8	—	29.7
Exchange services and other fees	10.1	5.9	2.2	1.2	0.5	—	19.9
Market data fees	10.5	33.9	0.8	2.8	—	—	48.0
Regulatory fees	14.7	68.6	—	—	—	—	83.3
Other revenue	3.1	1.7	—	1.0	—	0.2	6.0
	\$ 233.5	\$ 331.1	\$ 37.5	\$ 27.6	\$ 10.9	\$ 0.2	\$ 640.8
Timing of revenue recognition							
Services transferred at a point in time	\$ 199.0	\$ 278.6	\$ 34.0	\$ 21.8	\$ 9.6	\$ 0.2	\$ 543.2
Services transferred over time	34.5	52.5	3.5	5.8	1.3	—	97.6
	\$ 233.5	\$ 331.1	\$ 37.5	\$ 27.6	\$ 10.9	\$ 0.2	\$ 640.8



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	Options	U.S Equities	Futures	European Equities	Global FX	Corporate Item and Eliminations	Total
<b>Six Months Ended</b>							
<b>June 30, 2018</b>							
Transaction fees	\$ 424.8	\$ 445.7	\$ 65.7	\$ 49.9	\$ 25.8	\$ —	\$ 1,011.9
Access fees	28.0	23.1	2.4	4.4	1.9	—	59.8
Exchange services and other fees	20.0	13.7	5.1	3.0	1.2	—	43.0
Market data fees	21.4	75.1	3.2	6.8	0.2	—	106.7
Regulatory fees	33.3	172.2	0.1	—	—	—	205.6
Other revenue	10.7	3.9	—	3.2	—	0.4	18.2
	\$ 538.2	\$ 733.7	\$ 76.5	\$ 67.3	\$ 29.1	\$ 0.4	\$ 1,445.2
<b>Timing of revenue recognition</b>							
Services transferred at a point in time	\$ 468.8	\$ 621.8	\$ 65.8	\$ 53.1	\$ 25.8	\$ 0.4	\$ 1,235.7
Services transferred over time	69.4	111.9	10.7	14.2	3.3	—	209.5
	\$ 538.2	\$ 733.7	\$ 76.5	\$ 67.3	\$ 29.1	\$ 0.4	\$ 1,445.2
<b>Six Months Ended</b>							
<b>June 30, 2017</b>							
Transaction fees	\$ 321.4	\$ 285.0	\$ 62.7	\$ 28.0	\$ 13.2	\$ —	\$ 710.3
Access fees	26.2	16.9	1.0	2.4	1.0	—	47.5
Exchange services and other fees	23.0	7.9	2.2	1.6	0.6	—	35.3
Market data fees	20.9	45.0	0.8	3.7	0.1	—	70.5
Regulatory fees	27.4	94.2	—	—	—	—	121.6
Other revenue	7.3	2.3	0.7	1.2	—	0.3	11.8
	\$ 426.2	\$ 451.3	\$ 67.4	\$ 36.9	\$ 14.9	\$ 0.3	\$ 997.0
<b>Timing of revenue recognition</b>							
Services transferred at a point in time	\$ 356.1	\$ 381.5	\$ 63.4	\$ 29.2	\$ 13.2	\$ 0.3	\$ 843.7
Services transferred over time	70.1	69.8	4.0	7.7	1.7	—	153.3
	\$ 426.2	\$ 451.3	\$ 67.4	\$ 36.9	\$ 14.9	\$ 0.3	\$ 997.0

Contract liabilities for the six months ended June 30, 2018 primarily represent prepayments of transaction fees and certain access and market data fees to the Exchanges. The revenue recognized from contract liabilities and the

remaining balance is shown below (in millions):

	Balance at January 1, 2018	Cash Additions	Revenue Recognition	Balance at June 30, 2018
Liquidity provider sliding scale (1)	\$ 4.8	\$ 4.8	\$ (4.8)	\$ 4.8
Other, net	10.6	8.0	(6.0)	12.6
Total deferred revenue	\$ 15.4	\$ 12.8	\$ (10.8)	\$ 17.4

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- (1) Liquidity providers are eligible to participate in the sliding scale program, which involves prepayment of transaction fees, and to receive reduced fees based on the achievement of certain volume thresholds within a calendar month. These transaction fees are amortized and recorded ratably as the transactions occur over the period.

### 3. ACQUISITIONS

Bats Global Markets, Inc.

On February 28, 2017, pursuant to the Agreement and Plan of Merger, dated as of September 25, 2016 (the “Merger Agreement”), by and among Cboe, Bats, CBOE Corporation, a Delaware corporation and a wholly-owned subsidiary of Cboe (“Merger Sub”), and Cboe Bats, LLC (formerly CBOE V, LLC), a Delaware limited liability company and a wholly-owned subsidiary of Cboe (“Merger LLC”), Cboe completed the merger of Merger Sub with and

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into Bats and the subsequent merger of Bats with and into Merger LLC. As a result of the Merger, Bats became a wholly-owned subsidiary of Cboe.

The acquisition-date fair value of the consideration transferred totaled \$4.0 billion, which consisted of the following (in millions):

Cash consideration for Bats outstanding common stock	\$ 955.5
Common stock issued	2,387.3
Equity awards issued	37.4
	3,380.2
Debt extinguished	580.0
Total consideration	\$ 3,960.2

The following table summarizes the estimated fair values of the assets acquired and liabilities assumed at the acquisition date (in millions):

Cash and cash equivalents	\$ 130.1
Accounts receivable	117.8
Financial investments	66.0
Property and equipment	21.8
Other assets	32.8
Goodwill	2,653.3
Intangibles	2,000.0
Accounts payable	(33.7)
Accrued expenses	(26.2)
Section 31 fees	(143.6)
Income tax payable	(52.9)
Deferred tax liability	(722.6)
Other liabilities	(82.6)
	\$ 3,960.2

For tax purposes, no tax deductible goodwill was generated as a result of this acquisition. Goodwill was assigned to the Options, U.S. Equities, European Equities, and Global FX segments as further described in Note 9 and is attributable to the expansion of asset classes, broadening of geographic reach, and expected synergies of the combined workforce, products and technologies of the Company and Bats. The intangible assets were assigned to the Options, U.S. Equities, European Equities, and Global FX segments in the following manner and will be amortized over the following useful lives:

U.S.	European
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	Options	Equities	Equities	Global FX	Useful life
Trading registrations and licenses	\$ 95.5	\$ 572.7	\$ 171.8	\$ —	indefinite
Customer relationships	37.1	222.9	160.0	140.0	20 years
Market data customer relationships	53.6	322.0	60.0	64.4	15 years
Technology	22.5	22.5	22.5	22.5	7 years
Trademarks and tradenames	1.0	6.0	1.8	1.2	2 years
Goodwill	226.4	1,738.1	419.3	267.2	
	\$ 436.1	\$ 2,884.2	\$ 835.4	\$ 495.3	

There were no goodwill or intangible assets assigned to the Futures segment as a result of this transaction as Bats did not operate a Futures business and no synergies are attributable to this segment.

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The fair value of accounts receivable acquired was \$117.8 million. The gross amount of accounts receivable was \$118.0 million of which \$0.2 million was deemed uncollectable.

The Company expensed \$8.6 million of acquisition-related costs during the three months ended June 30, 2018 that included \$7.4 million of compensation-related costs and \$1.2 million of professional fees. These expenses are included in acquisition-related costs in the condensed consolidated statements of income.

The Company expensed \$17.4 million of acquisition-related costs during the six months ended June 30, 2018 that included \$12.8 million of compensation-related costs, \$2.7 million of stock-based compensation, \$1.3 million of professional fees, and \$0.6 million of general and administrative expenses. These expenses are included in acquisition-related costs in the condensed consolidated statements of income.

The Company expensed \$4.7 million of acquisition-related costs during the three months ended June 30, 2017 that included \$3.4 million of compensation-related costs and \$1.3 million of professional fees. These costs are included in acquisition-related costs in the condensed consolidated statements of income.

The Company expensed \$69.9 million of acquisition-related costs during the six months ended June 30, 2017 that included \$33.5 million of compensation-related costs, \$20.6 million of professional fees, \$14.9 million of an impairment of capitalized data processing software, and \$0.9 million of facilities expenses. These costs are included in acquisition-related costs in the condensed consolidated statements of income.

The amounts of revenue, operating income and net income of Bats are included in the Company's condensed consolidated statements of income after the acquisition date of February 28, 2017 and are as follows (in millions):

	Three Months Ended June 30, 2018	Three Months Ended June 30, 2017	Six Months Ended June 30, 2018	Six Months Ended June 30, 2017
Revenue	\$ 470.2	\$ 446.0	\$ 996.7	\$ 605.8
Revenue less cost of revenues	129.0	114.9	260.2	154.1
Operating income (loss)	48.6	28.6	102.5	26.6
Net income (loss)	45.1	18.3	96.2	17.6

The financial information in the table below summarizes the combined results of operations of the Company and Bats, on a pro forma basis, as though the companies had been combined as of January 1, 2017. The pro forma financial information is presented for informational purposes only and is not indicative of the results of operations that would have been achieved if the acquisition had taken place at the beginning of the period presented. Such pro forma financial information is based on the historical financial statements of the Company and Bats. This pro forma financial information is based on estimates and assumptions that have been made solely for purposes of developing such pro forma information, including, without limitation, preliminary purchase accounting adjustments. The pro forma

financial information does not reflect any synergies or operating cost reductions that may be achieved from the combined



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operations. The pro forma financial information combines the historical results for the Company and Bats for the six months ended June 30, 2017 in the following table (in millions, except per share amounts):

	Six Months Ended June 30, 2017
Revenue	\$ 1,269.9
Revenue less cost of revenues	532.2
Operating income	229.4
Net income	157.3
Earnings per share:	
Basic	\$ 1.40
Diluted	1.40

The supplemental 2017 pro forma amounts have been calculated after applying the Company's accounting policies and adjusting the results to reflect the additional amortization that would have been charged assuming the adjusted fair values of acquired intangible assets had been applied on January 1, 2017. The supplemental 2017 pro forma financial information includes pro forma adjustments of \$93.3 million for acquisition-related costs, such as fees to investment bankers, attorneys, accountants and other professional advisors, as well as severance to employees.

## 4. SEVERANCE

Subsequent to the Bats acquisition, the Company determined that certain employees' positions were redundant. As such, the Company communicated employee termination benefits to these employees.

The following is a summary of the employee termination benefits recognized within acquisition costs in the Corporate Items and Eliminations unit in the condensed consolidated statements of income (in millions):

	Employee Termination Benefits
Balance at December 31, 2017	\$ 4.8
Termination benefits accrued	9.4
Termination payments made	(12.0)
Balance at June 30, 2018	\$ 2.2



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## 5. INVESTMENTS

As of June 30, 2018 and December 31, 2017, the Company's investments were comprised of the following (in millions):

	June 30, 2018	December 31, 2017
Equity Method:		
Investment in Signal Trading Systems, LLC	\$ 14.1	\$ 12.5
Investment in EuroCCP	10.3	9.6
Total equity method investments	24.4	22.1
Other Equity Investments:		
Investment in OCC	30.3	30.3
Investment in Eris Exchange Holdings, LLC	20.0	20.0
Investment in American Financial Exchange, LLC	5.9	5.9
Other	8.1	4.4
Total other equity investments	64.3	60.6
Total investments	\$ 88.7	\$ 82.7

## Equity Method

Equity method investments include investments in Signal Trading Systems, LLC ("Signal"), a joint venture with FlexTrade System, Inc. to develop and market a multi-asset front-end order entry system, and EuroCCP, a Dutch domiciled clearing house. EuroCCP is one of three interoperable central counterparties, or CCPs, used to clear trades conducted on Cboe Europe Equities' markets. Cboe Europe Equities owns 20% of EuroCCP and can exercise significant influence over the entity as an equal shareholder with four other investors.

## Other Equity Investments

The carrying amount of other equity investments totaled \$64.3 million as of June 30, 2018 and \$60.6 million as of December 31, 2017, and is included in investments in the condensed consolidated balance sheets. The Company accounts for these investments using the measurement alternative primarily as a result of the Company's inability to exercise significant influence as the Company is a smaller shareholder of these investments and the lack of readily determinable fair values. As of June 30, 2018, other equity investments primarily reflect a 20% investment in OCC and minority investments in American Financial Exchange, CurveGlobal and Eris Exchange Holdings, LLC.

In December 2014, OCC announced a newly-formed capital plan. The OCC capital plan was designed to strengthen OCC's capital base and facilitate its compliance with proposed SEC regulations for Systemically Important Financial Market Utilities ("SIFMUs") as well as international standards applicable to financial market infrastructures. On February 26, 2015, the SEC issued a notice of no objection to OCC's advance notice filing regarding the capital plan, and OCC and OCC's existing exchange stockholders, which include Cboe Options, subsequently executed agreements

effecting the capital plan. Under the plan, each of OCC's existing exchange stockholders agreed to contribute its pro-rata share, based on ownership percentage, of \$150 million in equity capital, which would increase OCC's shareholders' equity, and to provide its pro rata share in replenishment capital, up to a maximum of \$40 million per exchange stockholder, if certain capital thresholds are breached. OCC also adopted policies under the plan with respect to fees, customer refunds, and stockholder dividends, which envision an annual dividend payment to the exchange stockholders equal to the portion of OCC's after-tax income that exceeds OCC's capital requirements after payment of refunds to OCC's clearing members (with such customer refunds generally to constitute 50% of the portion of OCC's pre-tax income that exceeds OCC's capital requirements). On March 3, 2015, in accordance with the plan, Cboe Options

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contributed \$30 million to OCC. That contribution has been recorded under investments in the condensed consolidated balance sheets as of June 30, 2018 and December 31, 2017, respectively.

On March 6, 2015, OCC informed Cboe Options that the SEC, acting through delegated authority, had approved OCC's proposed rule filing for the capital plan. Following petitions to review the approval based on delegated authority, the SEC conducted its own review and then approved the proposed rule change implementing OCC's capital plan. Certain petitioners subsequently appealed the SEC approval order for the OCC capital plan to the U.S. Court of Appeals for the D.C. Circuit and moved to stay the SEC approval order. On February 23, 2016, the Court denied the petitioners' motion to stay. On August 8, 2017, the Court held that the SEC's approval order lacked reasoned decision-making sufficient to support the SEC's conclusion that the OCC capital plan complied with applicable statutory requirements. The Court declined to vacate the SEC's approval order or to require the unwinding of actions taken under the OCC capital plan, but instead remanded the matter to the SEC for further proceedings concerning whether that capital plan complies with those statutory requirements. Petitioners requested a stay of dividend payments to the exchange stockholders until the SEC made a final decision about the OCC capital plan, but the SEC denied that request on September 14, 2017. The SEC allowed for and received information from interested parties for the SEC's consideration in connection with its review of the OCC capital plan on remand from the Court. The SEC's review of the OCC capital plan on remand from the Court remains pending.

## 6. FINANCIAL INVESTMENTS

The Company's financial investments with original or acquired maturities longer than three months, but that mature in less than one year from the condensed consolidated balance sheet date and any money market funds that are considered cash and cash equivalents are classified as current assets and are summarized as follows (in millions):

	June 30, 2018			
	Cost basis	Unrealized gains	Unrealized losses	Fair value
U.S. Treasury securities	\$ 131.8	\$ —	\$ —	\$ 131.8
Money market funds	2.5	—	—	2.5
Total financial investments	\$ 134.3	\$ —	\$ —	\$ 134.3

	December 31, 2017			
	Cost basis	Unrealized gains	Unrealized losses	Fair value
U.S. Treasury securities	\$ 47.3	\$ —	\$ —	\$ 47.3
Money market funds	2.5	—	—	2.5
Total financial investments	\$ 49.8	\$ —	\$ —	\$ 49.8

## 7. PROPERTY AND EQUIPMENT, NET

Property and equipment, net consisted of the following as of June 30, 2018 and December 31, 2017 (in millions):

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	June 30, 2018	December 31, 2017
Construction in progress	\$ 0.2	\$ 5.9
Building	80.8	77.4
Furniture and Equipment	152.4	139.7
Total property and equipment	233.4	223.0
Less accumulated depreciation	(168.0)	(149.1)
Property and equipment, net	\$ 65.4	\$ 73.9

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Depreciation expense using the straight-line method was \$6.1 million and \$8.7 million for the three months ended June 30, 2018 and 2017, respectively, and \$13.0 million and \$15.2 million for the six months ended June 30, 2018 and 2017, respectively.

## 8. OTHER ASSETS, NET

Other assets, net consisted of the following as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018	December 31, 2017
Software development work in progress	\$ 7.1	\$ 10.2
Data processing software	217.5	220.0
Less accumulated depreciation and amortization	(187.1)	(189.6)
Data processing software, net	37.5	40.6
Other assets (1)	22.1	18.9
Other assets, net	\$ 59.6	\$ 59.5

(1) At December 31, 2017 and June 30, 2018, the majority of the balance included long-term prepaid assets and notes receivable.

Amortization expense related to data processing software was \$4.6 million and \$4.4 million for the three months ended June 30, 2018 and 2017, respectively, and \$9.7 million and \$8.5 million for the six months ended June 30, 2018 and 2017, respectively.

## 9. GOODWILL AND INTANGIBLE ASSETS, NET

The following table presents the details of goodwill by segment (in millions):

	Options	U.S. Equities	European Equities	Global FX	Corporate and Other	Total
Balance as of December 31, 2017	\$ 239.4	\$ 1,740.4	\$ 441.6	\$ 267.2	\$ 18.8	\$ 2,707.4
Additions	—	—	—	—	—	—
Dispositions	—	—	—	—	—	—
Changes in foreign currency exchange rates	—	—	(6.1)	—	—	(6.1)
Balance as of June 30, 2018	\$ 239.4	\$ 1,740.4	\$ 435.5	\$ 267.2	\$ 18.8	\$ 2,701.3

Goodwill has been allocated to specific reporting units for purposes of impairment testing - Options, U.S. Equities, European Equities and Global FX. No goodwill has been allocated to Futures. Goodwill impairment testing is performed annually in the fiscal fourth quarter or more frequently if conditions exist that indicate that the asset may be impaired. The allocation of the new goodwill did not impact the existing goodwill assignment to reporting units and

there are no aggregate impairments of goodwill.

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Cboe Global Markets, Inc. and Subsidiaries

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The following table presents the details of the intangible assets (in millions):

	Options	U.S. Equities	European Equities	Global FX	Corporate and Other	Total
Balance as of December 31, 2017	\$ 198.7	\$ 1,071.8	\$ 427.0	\$ 199.6	\$ 5.5	\$ 1,902.6
Additions	—	—	—	—	—	—
Dispositions	—	—	—	—	—	—
Amortization	(8.5)	(41.5)	(14.7)	(16.5)	(0.6)	(81.8)
Changes in foreign currency exchange rates	—	—	(7.8)	—	—	(7.8)
Balance as of June 30, 2018	\$ 190.2	\$ 1,030.3	\$ 404.5	\$ 183.1	\$ 4.9	\$ 1,813.0

For the three months ended June 30, 2018 and 2017, amortization expense was \$39.7 million and \$42.7 million, respectively. For the six months ended June 30, 2018 and 2017, amortization expense was \$81.8 million and \$57.2 million, respectively. The estimated future amortization expense is \$78.1 million for the remainder of 2018, \$137.5 million for 2019, \$121.0 million for 2020, \$105.7 million for 2021, \$93.5 million for 2022 and \$82.6 million for 2023.

The following tables present the categories of intangible assets as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018					Weighted Average Amortization Period (in years)
	Options	U.S. Equities	European Equities	Global FX	Corporate and Other	
Trading registrations and licenses	\$ 95.5	\$ 572.7	\$ 179.5	\$ —	\$ 1.0	Indefinite
Customer relationships	38.8	222.9	167.2	140.0	3.0	19
Market data customer relationships	53.6	322.0	62.7	64.4	—	14
Technology	24.6	22.5	23.5	22.5	4.0	6
Trademarks and tradenames	1.7	6.0	1.9	1.2	—	1
Other	0.2	—	—	—	—	1
Accumulated amortization	(24.2)	(115.8)	(30.3)	(45.0)	(3.1)	
	\$ 190.2	\$ 1,030.3	\$ 404.5	\$ 183.1	\$ 4.9	

	December 31, 2017					Weighted Average Amortization Period (in years)
	Options	U.S. Equities	European Equities	Global FX	Corporate and Other	
Trading registrations and licenses	\$ 95.5	\$ 572.7	\$ 186.5	\$ —	\$ —	Indefinite

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Customer relationships	38.8	222.9	173.7	140.0	3.0	19
Market data customer relationships	53.6	322.0	65.1	64.4	—	14
Technology	24.6	22.5	24.4	22.5	4.0	6
Trademarks and tradenames	1.7	6.0	2.0	1.2	1.0	2
Other	0.2	—	—	—	—	2
Accumulated amortization	(15.7)	(74.3)	(24.7)	(28.5)	(2.5)	
	\$ 198.7	\$ 1,071.8	\$ 427.0	\$ 199.6	\$ 5.5	

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Cboe Global Markets, Inc. and Subsidiaries

Notes to Condensed Consolidated Financial Statements (unaudited)

## 10. ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

Accounts payable and accrued liabilities consisted of the following as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018	December 31, 2017
Compensation and benefit-related liabilities	\$ 42.1	\$ 18.0
Termination benefits	2.2	4.8
Royalties	17.9	20.3
Accrued liabilities	83.7	59.1
Marketing fee payable	13.9	8.4
Accounts payable	11.1	43.2
Total accounts payable and accrued liabilities	\$ 170.9	\$ 153.8

## 11. DEBT

The Company's debt consisted of the following as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018	December 31, 2017
Term Loan Agreement	\$ 270.4	\$ —
Prior Term Loan Agreement	—	294.9
3.650% Senior Notes	644.2	643.8
1.950% Senior Notes	299.5	299.2
Revolving Credit Agreement	—	—
Total debt	\$ 1,214.1	\$ 1,237.9

In connection with the Merger, on December 15, 2016, the Company entered into the Prior Term Loan Agreement (as defined below) providing for a \$1.0 billion senior unsecured delayed draw term loan facility and on January 12, 2017, the Company issued \$650 million aggregate principal amount of 3.650% Senior Notes due 2027 ("3.650% Senior Notes"). The proceeds from this delayed draw term loan facility and issuance of our senior notes, in addition to using cash on hand at Cboe and Bats, were used to finance a portion of the cash component of the Merger consideration, to refinance existing indebtedness of Bats and its subsidiaries and to pay related fees and expenses. In addition, on December 15, 2016, the Company entered into a \$150 million revolving credit facility to be used for working capital and other general corporate purposes.

On June 29, 2017, Cboe refinanced approximately \$300 million of the amounts outstanding under the Prior Term Loan Agreement through the issuance of \$300 million in aggregate principal amount of 1.950% Senior Notes due 2019 ("1.950% Senior Notes" and, together with the 3.650% Senior Notes, the "Notes").

On March 22, 2018, the Company repaid \$300 million of outstanding indebtedness under the Prior Term Loan Agreement by using the proceeds from a new Term Loan Agreement (as defined below) providing for a \$300 million senior unsecured term loan facility.

#### Term Loan Agreement

On March 22, 2018, the Company, as borrower, entered into a new Term Loan Credit Agreement (the “Term Loan Agreement”) with Bank of America, N.A. (“Bank of America”), as administrative agent and initial lender, and the several banks and other financial institutions from time to time party thereto as lenders. Bank of America also acted as sole lead arranger and sole bookrunner with respect to the Term Loan Agreement. The Term Loan Agreement provides for a senior unsecured term loan facility in an aggregate principal amount of \$300 million. The proceeds of the loan

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under the Term Loan Agreement were used to repay the \$300 million of outstanding indebtedness under the Prior Term Loan Agreement.

Loans under the Term Loan Agreement bear interest, at our option, at either (i) the London Interbank Offered Rate (“LIBOR”) periodically fixed for an interest period (as selected by us) of one, two, three or six months plus a margin (based on our public debt ratings) ranging from 1.00 percent per annum to 1.50 percent per annum or (ii) a daily floating rate based on the agent’s prime rate (subject to certain minimums based upon the federal funds effective rate or LIBOR) plus a margin (based on our public debt ratings) ranging from zero percent per annum to 0.50 percent per annum. The Company was required to pay an up-front fee of 0.05 percent to the agent for the entry into the Term Loan Agreement.

The Term Loan Agreement, which matures on December 15, 2021, contains customary representations, warranties and affirmative and negative covenants for facilities of its type, including financial covenants, events of default and indemnification provisions in favor of the lenders thereunder. The negative covenants include restrictions regarding the incurrence of liens, the incurrence of indebtedness by our subsidiaries and fundamental changes, subject to certain exceptions in each case. The financial covenants require us to meet a quarterly financial test with respect to a minimum consolidated interest coverage ratio of not less than 4.00 to 1.00 and a maximum consolidated leverage ratio of not greater than 3.50 to 1.00. At June 30, 2018, the Company was in compliance with these covenants.

Prior Term Loan Agreement

On December 15, 2016, the Company, as borrower, entered into a Term Loan Credit Agreement (the “Prior Term Loan Agreement”) with Bank of America, as administrative agent, certain lenders named therein (the “Prior Term Lenders”), Merrill Lynch, Pierce, Fenner & Smith Incorporated, as sole lead arranger and sole bookrunner, Morgan Stanley MUFG Loan Partners, LLC, as syndication agent, and Citibank, N.A., PNC Bank, National Association and JPMorgan Chase Bank, N.A., as co-documentation agents. The Term Loan Agreement provided for a senior unsecured delayed draw term loan facility (the “Prior Term Loan Facility”) in an aggregate principal amount of \$1.0 billion.

The commercial terms of the Prior Term Loan Agreement are substantially similar to the Term Loan Agreement, other than interest rates and the maturity date.

Loans under the Prior Term Loan Agreement, which was to mature on February 28, 2022, bore interest, at our option, at either (i) LIBOR periodically fixed for an interest period (as selected by us) of one, two, three or six months plus a margin (based on our public debt ratings) ranging from 1.00 percent per annum to 1.75 percent per annum or (ii) a daily floating rate based on the agent’s prime rate (subject to certain minimums based upon the federal funds effective rate or LIBOR) plus a margin (based on our public debt ratings) ranging from zero percent per annum to 0.75 percent per annum. The Company was required to pay a ticking fee to the agent for the account of the Prior Term Lenders which initially accrued at a rate (based on our public debt ratings) ranging from 0.10 percent per annum to 0.30 percent per annum multiplied by the undrawn aggregate commitments of the Prior Term Lenders in respect of the Prior Term Loan Facility, accruing during the period commencing on December 15, 2016 and ending on the earlier of the date on which the loans are drawn.

On February 28, 2017, Cboe made a draw under the Prior Term Loan Agreement in the amount of \$1.0 billion. Cboe used the proceeds to finance a portion of the cash component of the aggregate consideration for the Merger, repaid

certain existing indebtedness of Bats, paid fees and expenses incurred in connection with the transactions contemplated by the Merger Agreement, funded working capital needs, and for other general corporate purposes. Loans under the Prior Term Loan Agreement mature five years following the closing date of the Merger.

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Notes to Condensed Consolidated Financial Statements (unaudited)

1.950% Senior Notes due 2019

On June 29, 2017, the Company issued \$300 million aggregate principal amount of 1.950% Senior Notes. The form and terms of the 1.950% Senior Notes were established pursuant to an Officer's Certificate, dated as of June 29, 2017, supplementing the Indenture (as defined below). Underwriter fees of \$0.8 million were also capitalized and netted against current portion of long-term debt in the consolidated balance sheet, while other issuance fees of \$0.9 million were expensed and are included in debt issuance costs on the consolidated statement of income for the six months ended June 30, 2018.

The Company used the net proceeds from the 1.950% Senior Notes to repay amounts under the Term Loan Agreement. The 1.950% Senior Notes mature on June 28, 2019 and bear interest at the rate of 1.950% per annum, payable semi-annually in arrears on June 28 and December 28 of each year, commencing December 28, 2017. The 1.950% Senior Notes are unsecured obligations of the Company and rank equally with all of the Company's other existing and future unsecured, senior indebtedness, but are effectively junior to the Company's secured indebtedness, to the extent of the value of the assets securing such indebtedness, and will be structurally subordinated to the secured and unsecured indebtedness of the Company's subsidiaries.

The Company has the option to redeem some or all of the 1.950% Senior Notes, at any time in whole or from time to time in part, at the redemption prices set forth in the Officer's Certificate. The Company may also be required to offer to repurchase the 1.950% Senior Notes upon the occurrence of a Change of Control Triggering Event (as such term is defined in the Officer's Certificate) at a repurchase price equal to 101% of the aggregate principal amount of 1.950% Senior Notes to be repurchased.

3.650% Senior Notes due 2027

On January 12, 2017, the Company entered into an indenture (the "Indenture"), by and between the Company and Wells Fargo Bank, National Association, as trustee, in connection with the issuance of \$650 million aggregate principal amount of the Company's 3.650% Senior Notes. The form and terms of the 3.650% Senior Notes were established pursuant to an Officer's Certificate, dated as of January 12, 2017, supplementing the Indenture.

The Company used a portion of the net proceeds from the 3.650% Senior Notes to fund, in part, the Merger, including the payment of related fees and expenses and the repayment of Bats' existing indebtedness, and the remainder for general corporate purposes. The 3.650% Senior Notes mature on January 12, 2027 and bear interest at the rate of 3.650% per annum, payable semi-annually in arrears on January 12 and July 12 of each year, commencing July 12, 2017. The 3.650% Senior Notes are unsecured obligations of the Company and rank equally with all of the Company's other existing and future unsecured, senior indebtedness, but are effectively junior to the Company's secured indebtedness, to the extent of the value of the assets securing such indebtedness, and will be structurally subordinated to the secured and unsecured indebtedness of the Company's subsidiaries.

The Company has the option to redeem some or all of the 3.650% Senior Notes, at any time in whole or from time to time in part, at the redemption prices set forth in the Officer's Certificate. The Company may also be required to offer to repurchase the 3.650% Senior Notes upon the occurrence of a Change of Control Triggering Event (as such term is defined in the Officer's Certificate) at a repurchase price equal to 101% of the aggregate principal amount of 3.650% Senior Notes to be repurchased.

Indenture

Under the Indenture, the Company may issue debt securities, which includes the Notes, at any time and from time to time, in one or more series without limitation on the aggregate principal amount. The Indenture governing the Notes contains customary restrictions, including a limitation that restricts our ability and the ability of certain of our

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subsidiaries to create or incur secured debt. Such Indenture also limits certain sale and leaseback transactions and contains customary events of default. At June 30, 2018, the Company was in compliance with these covenants.

Revolving Credit Agreement

On December 15, 2016, the Company, as borrower, entered into a Credit Agreement (the “Revolving Credit Agreement”) with Bank of America, as administrative agent and as swing line lender, certain lenders named therein (the “Revolving Lenders”), Merrill Lynch, Pierce, Fenner & Smith Incorporated, as sole lead arranger and sole bookrunner, Morgan Stanley MUFG Loan Partners, LLC, as syndication agent, and Citibank, N.A., PNC Bank, National Association and JPMorgan Chase Bank, N.A., as co-documentation agents.

The Revolving Credit Agreement provides for a senior unsecured \$150 million five-year revolving credit facility (the “Revolving Credit Facility”) that includes a \$25 million swing line sub-facility. The Company may also, subject to the agreement of the applicable lenders, increase the commitments under the Revolving Credit Facility by up to \$100 million, for a total of \$250 million. Subject to specified conditions, the Company may designate one or more of its subsidiaries as additional borrowers under the Revolving Credit Agreement provided that it guarantees all borrowings and other obligations of any such subsidiaries. As of June 30, 2018, no subsidiaries were designated as additional borrowers.

Funds borrowed under the Revolving Credit Agreement may be used to fund working capital and for other general corporate purposes. As of June 30, 2018, no borrowings were outstanding under the Revolving Credit Agreement. Accordingly, at June 30, 2018, \$150 million of borrowing capacity was available for the purposes permitted by the Revolving Credit Agreement.

Loans under the Revolving Credit Agreement will bear interest, at our option, at either (i) LIBOR periodically fixed for an interest period (as selected by us) of one, two, three or six months plus a margin (based on our public debt ratings) ranging from 1.00 percent per annum to 1.75 percent per annum or (ii) a daily floating rate based on our prime rate (subject to certain minimums based upon the federal funds effective rate or LIBOR) plus a margin (based on our public debt ratings) ranging from zero percent per annum to 0.75 percent per annum.

Subject to certain conditions stated in the Revolving Credit Agreement, the Company may borrow, prepay and reborrow amounts under the Revolving Credit Facility at any time during the term of the Revolving Credit Agreement. The Revolving Credit Agreement will terminate and all amounts owing thereunder will be due and payable on December 15, 2021, unless the commitments are terminated earlier, either at our request or, if an event of default occurs, by the Revolving Lenders (or automatically in the case of certain bankruptcy-related events). The Revolving Credit Agreement contains customary representations, warranties and affirmative and negative covenants for facilities of its type, including financial covenants, events of default and indemnification provisions in favor of the Revolving Lenders. The negative covenants include restrictions regarding the incurrence of liens, the incurrence of indebtedness by our subsidiaries and fundamental changes, subject to certain exceptions in each case. The financial covenants require us to meet a quarterly financial test with respect to a minimum consolidated interest coverage ratio of not less than 4.00 to 1.00 and a maximum consolidated leverage ratio of not greater than 3.50 to 1.00. At June 30, 2018, the Company was in compliance with these covenants.



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Loan and Notes Payments and Contractual Interest

The future expected loan repayments related to the Term Loan Agreement and the Notes as of June 30, 2018 are as follows (in millions):

2018	\$ —
2019	300.0
2020	—
2021	275.0
2022	—
Thereafter	650.0
Principal amounts repayable	1,225.0
Debt issuance cost	(5.8)
Unamortized discounts on notes	(5.1)
Total debt outstanding	\$ 1,214.1

Interest expense recognized on the Term Loan Agreement and the Notes is included in interest expense, net in the condensed consolidated statements of income, for the three months and six ended June 30, 2018 and 2017 is as follows (in millions):

	Three Months		Six Months	
	Ended June 30, 2018	2017	Ended June 30, 2018	2017
Components of interest expense:				
Contractual interest	\$ 9.5	\$ 10.9	\$ 18.9	\$ 18.5
Amortization of debt discount	0.2	0.2	0.4	0.2
Amortization of debt issuance cost	0.5	1.4	0.9	2.3
Interest expense	\$ 10.2	\$ 12.5	20.2	21.0
Interest income	(0.9)	—	(1.3)	(0.6)
Interest expense, net	\$ 9.3	\$ 12.5	\$ 18.9	\$ 20.4

## 12. ACCUMULATED OTHER COMPREHENSIVE INCOME, NET

The following represents the changes in accumulated other comprehensive income by component (in millions):

	Foreign		Total
	Currency	Unrealized	Accumulated
			Other

	Translation Adjustment	Investment Gain/Loss	Post-Retirement Benefits	Comprehensive Income
Balance at December 31, 2017	\$ 51.3	\$ 0.2	\$ (0.8)	\$ 50.7
Other comprehensive income (loss)	(15.5)	—	(1.0)	(16.5)
Balance at June 30, 2018	\$ 35.8	\$ 0.2	\$ (1.8)	\$ 34.2

### 13. FAIR VALUE MEASUREMENTS

Fair value is the price that would be received upon the sale of an asset or paid upon the transfer of a liability in an orderly transaction between market participants at the measurement date and in the principal or most advantageous market for that asset or liability. The fair value should be calculated based on assumptions that market participants would use in pricing the asset or liability, not on assumptions specific to the entity. In addition, the fair value of liabilities should include consideration of non-performance risk, including the Company's own credit risk.

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The Company applied Financial Accounting Standards Board ASC 820, Fair Value Measurement and Disclosure, which provides guidance for using fair value to measure assets and liabilities by defining fair value and establishing the framework for measuring fair value. ASC 820 applies to financial and nonfinancial instruments that are measured and reported on a fair value basis. The three-level hierarchy of fair value measurements is based on whether the inputs to those measurements are observable or unobservable. Observable inputs reflect market data obtained from independent sources, while unobservable inputs reflect the Company's market assumptions. The fair-value hierarchy requires the use of observable market data when available and consists of the following levels:

- Level 1—Unadjusted inputs based on quoted markets for identical assets or liabilities.
- Level 2—Observable inputs, either direct or indirect, not including Level 1, corroborated by market data or based upon quoted prices in non-active markets.
- Level 3—Unobservable inputs that reflect management's best assumptions of what market participants would use in valuing the asset or liability.

The Company has included a tabular disclosure for financial assets and liabilities that are measured at fair value on a recurring basis in the condensed consolidated balance sheet as of June 30, 2018 and December 31, 2017.

## Instruments Measured at Fair Value on a Recurring Basis

The following tables present the Company's fair value hierarchy for those assets measured at fair value on a recurring basis as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018			
	Total	Level 1	Level 2	Level 3
Assets:				
U.S. Treasury securities	\$ 131.8	\$ 131.8	\$ —	\$ —
Money market funds	2.5	2.5	—	—
Total assets	\$ 134.3	\$ 134.3	\$ —	\$ —
Liabilities:				
Contingent consideration liabilities	\$ 2.2	\$ —	\$ —	\$ 2.2
Total Liabilities	\$ 2.2	\$ —	\$ —	\$ 2.2

	December 31, 2017			
	Total	Level 1	Level 2	Level 3
Assets:				
U.S. Treasury securities	\$ 47.3	\$ 47.3	\$ —	\$ —
Money market funds	2.5	2.5	—	—
Total assets	\$ 49.8	\$ 49.8	\$ —	\$ —
Liabilities:				
Contingent consideration liabilities	\$ 56.6	\$ —	\$ —	\$ 56.6
Total Liabilities	\$ 56.6	\$ —	\$ —	\$ 56.6



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The following is a description of the Company's valuation methodologies used for instruments measured at fair value on a recurring basis:

## Financial investments

Financial investments consist of highly liquid U.S. Treasury securities. These securities are valued by obtaining feeds from a number of live data sources, including active market makers and inter-dealer brokers and therefore categorized as Level 1.

## Contingent consideration liabilities

In connection with the acquisition of Bats and the acquisition of the assets of Silexx Financial Systems, LLC ("Silexx"), the Company acquired contingent consideration arrangements with the former owners of Cboe FX and Silexx, respectively. The total fair value of the liabilities at June 30, 2018 was \$2.2 million. The fair values are based on estimates of discounted future cash payments, a significant unobservable input, and are considered a Level 3 measurement.

## Fair Value of Financial Instruments

The following table presents the Company's fair value hierarchy for those financial instruments held by the Company as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018			
	Total	Level 1	Level 2	Level 3
Assets:				
Cash and cash equivalents	\$ 140.0	\$ 140.0	\$ —	\$ —
Financial investments	131.8	131.8	—	—
Accounts receivable	252.2	252.2	—	—
Total assets	\$ 524.0	\$ 524.0	\$ —	\$ —
Liabilities:				
Accounts payable	\$ 11.1	\$ —	\$ 11.1	\$ —
Section 31 fees payable	189.9	—	189.9	—
Contingent consideration liabilities	2.2	—	—	2.2
Debt	1,214.1	—	1,214.1	—
Total liabilities	\$ 1,417.3	\$ —	\$ 1,415.1	\$ 2.2
	December 31, 2017			
	Total	Level 1	Level 2	Level 3
Assets:				
Cash and cash equivalents	\$ 143.5	\$ 143.5	\$ —	\$ —
Financial investments	47.3	47.3	—	—
Accounts receivable	217.3	217.3	—	—

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Income tax receivable	17.2	17.2	—	—
Total assets	\$ 425.3	\$ 425.3	\$ —	\$ —
Liabilities:				
Accounts payable	\$ 43.2	\$ —	\$ 43.2	\$ —
Section 31 fees payable	105.6	—	105.6	—
Contingent consideration liabilities	56.6	—	—	56.6
Debt	1,237.9	—	1,237.9	—
Total liabilities	\$ 1,443.3	\$ —	\$ 1,386.7	\$ 56.6



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The carrying amounts of cash and cash equivalents, accounts receivable, income tax receivable, accounts payable and Section 31 fees payable approximate fair value due to their liquid or short-term nature.

Debt

The carrying amount of debt approximates its fair value based on quoted LIBOR at June 30, 2018 and is considered a Level 2 measurement.

Information on Level 3 Financial Liabilities

The following table sets forth a summary of changes in the fair value of the Company's Level 3 financial liabilities during the six months ended June 30, 2018.

	Level 3 Financial Liabilities for the Six Months Ended June 30, 2018				
	Balance at Beginning Period	Realized (gains) losses during period	Additions	Settlements	Balance at End of Period
Liabilities					
Contingent consideration liabilities	\$ 56.6	\$ 2.2	\$ —	\$ (56.6)	\$ 2.2
Total Liabilities	\$ 56.6	\$ 2.2	\$ —	\$ (56.6)	\$ 2.2

## 14. REDEEMABLE NONCONTROLLING INTEREST

Redeemable noncontrolling interest are reported on the consolidated balance sheets in mezzanine equity in Redeemable Noncontrolling Interest. The Company recognizes changes to the redemption value of redeemable noncontrolling interest as they occur and adjust the carrying value to equal the redemption value at the end of each reporting period. The resulting increases or decreases in the estimated redemption amount are affected by corresponding charges or credits against retained earnings, or in the absence of retained earnings, additional paid in capital. The redemption amounts have been estimated based on the fair value of the majority-owned subsidiary, determined based on a weighting of the discounted cash flow and other economic factors.

For the six months ended June 30, 2018, the following reflects changes in our redeemable noncontrolling interest (in millions):

Redeemable  
Noncontrolling  
Interest

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Balance as of December 31, 2017	\$ 9.4
Net loss attributable to redeemable noncontrolling interest	(0.6)
Redemption value adjustment of redeemable noncontrolling interest	0.6
Balance as of June 30, 2018	\$ 9.4

15. SEGMENT REPORTING

The Company reports five business segments: Options, U.S. Equities, Futures, European Equities, and Global FX, which is reflective of how the Company's chief operating decision-maker reviews and operates the business (Note 1). Segment performance is primarily based on operating income (loss). The Company has aggregated all of its corporate costs, acquisition-related costs, as well as other business ventures, within the Corporate Items and Eliminations unit based on the decision that those activities should not be used to evaluate the segment's operating performance; however, operating expenses that relate to activities of a specific segment have been allocated to that segment.

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The Options segment includes the options exchange business, which lists for trading options on market indexes (index options), mostly on an exclusive basis, as well as on non-exclusive "multiply-listed" options, such as options on the stocks of individual corporations (equity options) and options on other exchange-traded products (ETP options), such as exchange-traded funds (ETF options) and exchange-traded notes (ETN options) that occur on Cboe Options, C2, BZX and EDGX. It also includes the listed equity and ETP options routed transaction services that occur on Cboe Trading.

The U.S. Equities segment includes listed cash equities and ETP transaction services that occur on BZX, BYX, EDGX and EDGA. It also includes market data revenue generated from the U.S. tape plans as well as revenues generated from the sale of proprietary market data ETP listing, listed cash equities and ETPs routed transaction services, connectivity fees, and advertising activity from ETF.com.

The Futures segment includes the business of our futures exchange, CFE, which includes offering for trading futures on the VIX Index and bitcoin and other futures products.

The European Equities segment includes the pan European listed cash equities transaction services, ETPs, exchange traded commodities, and international depository receipts that occur on the RIE, operated by Cboe Europe Equities. It also includes the listed cash equities and ETPs routed transaction services that occur on Cboe Chi-X Europe, as well as the listings business where ETPs can be listed on Cboe Europe Equities.

The Global FX segment includes institutional FX trading services that occur on the Cboe FX platform, as well as non-deliverable forward FX transactions executed on Cboe SEF.

Summarized financial data of reportable segments was as follows (in millions):

	Options	U.S. Equities	Futures	European Equities	Global FX	Corporate items and eliminations	Total
Three months ended							
June 30, 2018							
Revenues	\$ 244.1	\$ 343.2	\$ 32.6	\$ 32.9	\$ 14.5	\$ 0.2	\$ 667.5
Operating income (loss)	78.1	37.5	16.3	6.5	(1.7)	(7.6)	129.1
Three months ended							
June 30, 2017							
Revenues	\$ 233.5	\$ 331.1	\$ 37.5	\$ 27.6	\$ 10.9	\$ 0.2	\$ 640.8
Operating income (loss)	61.2	33.3	33.4	3.5	(4.1)	(9.5)	117.8
		U.S		European	Global	Corporate	
	Options	Equities	Futures	Equities	FX	elimination	Total

Six Months Ended							
June 30, 2018							
Revenues	\$ 538.2	\$ 733.7	\$ 76.5	\$ 67.3	\$ 29.1	\$ 0.4	\$ 1,445.2
Operating income (loss)	191.7	71.3	42.5	12.7	(4.7)	(16.7)	296.8
Six Months Ended							
June 30, 2017							
Revenues	\$ 426.2	\$ 451.3	\$ 67.4	\$ 36.9	\$ 14.9	\$ 0.3	\$ 997.0
Operating income (loss)	126.2	45.5	59.3	5.1	(5.3)	(86.9)	143.9

## 16. EMPLOYEE BENEFITS

Employees are eligible to participate in the Cboe Options SMART Plan (“SMART Plan”). The SMART Plan is a defined contribution plan, which is qualified under Internal Revenue Code Section 401(k). In addition, eligible employees may participate in the Supplemental Employee Retirement Plan, Executive Retirement Plan and Deferred

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Compensation Plan. Effective January 1, 2017, the Executive Retirement Plan is closed to new executive officers and employees. Each plan is a defined contribution plan that is non-qualified under Internal Revenue Code. The Company contributed \$2.1 million and \$2.7 million to the defined contribution plans for the three months ended June 30, 2018 and 2017, respectively, and \$4.0 million and \$5.3 million to the defined contribution plans for the six months ended June 30, 2018 and 2017, respectively.

The Company also assumed the Cboe Europe Equities employee selected stakeholder contribution plan upon completion of the Merger. The Company's contribution amounted to \$0.1 million and \$0.5 million for the three months ended June 30, 2018 and 2017, respectively, and \$0.3 million and \$0.7 million for the six months ended June 30, 2018 and 2017. This expense is included in compensation and benefits in the condensed consolidated statements of income.

## 17. REGULATORY CAPITAL

As a broker-dealer registered with the SEC, Cboe Trading is subject to the SEC's Uniform Net Capital Rule (Rule 15c3-1), which requires the maintenance of minimum net capital, as defined therein. The SEC's requirement also provides that equity capital may not be withdrawn or a cash dividend paid if certain minimum net capital requirements are not met. Cboe Trading computes the net capital requirements under the basic method provided for in Rule 15c3-1.

As of June 30, 2018, Cboe Trading is required to maintain net capital equal to the greater of 6.67% of aggregate indebtedness items, as defined, or \$0.1 million. At June 30, 2018, Cboe Trading had net capital of \$8.2 million, which was \$7.6 million in excess of its required net capital of \$0.6 million.

As entities regulated by the FCA, Cboe Europe Equities is subject to the Financial Resource Requirement ("FRR") and Cboe Chi-X Europe is subject to the Capital Resources Requirement ("CRR"). As a RIE, Cboe Europe Equities computes its FRR in accordance with its Financial Risk Assessment, as agreed by the FCA. This FRR was \$22.9 million at June 30, 2018. At June 30, 2018, Cboe Europe Equities had capital in excess of its required FRR of \$30.8 million.

As a Banks, Investment firms, PRUdential (BIPRU) 50k firm, as defined by the Markets in Financial Instruments Directive of the FCA, Cboe Chi-X Europe computes its CRR as the greater of the base requirement of \$0.1 million at June 30, 2018, or the summation of the credit risk, market risk and fixed overheads requirements, as defined. At June 30, 2018, Cboe Chi-X Europe had capital in excess of its required CRR of \$0.5 million.

As a swap execution facility regulated by the CFTC, Cboe SEF is required to meet two capital adequacy tests: (i) its financial resources must be equal to at least twelve months of its projected operating costs and (ii) its unencumbered, liquid financial assets must be equal to at least six months of its projected operating costs. As of June 30, 2018, Cboe SEF had annual operating expenses of \$0.5 million and had financial resources that exceeded this amount. Additionally, as of June 30, 2018, Cboe SEF had projected operating expenses for six months of \$0.8 million and had unencumbered, liquid financial assets that exceeded this amount.

As a designated contract market regulated by the CFTC, CFE is required to meet two capital adequacy tests: (i) its financial resources must be equal to at least twelve months of its projected operating costs and (ii) its unencumbered, liquid financial assets must be equal to at least six months of its projected operating costs. As of June 30, 2018, CFE had annual projected operating expenses of \$59.2 million and had financial resources that exceeded this amount.

Additionally, as of June 30, 2018, CFE had projected operating expenses for six months of \$29.6 million and had unencumbered, liquid financial assets that exceeded this amount.

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18. STOCK-BASED COMPENSATION

Stock-based compensation is based on the fair value of the award on the date of grant, which is recognized over the related service period, net of actual forfeitures. The service period is the period over which the related service is performed, which is generally the same as the vesting period.

On February 19, 2018, the Company granted 147,017 restricted stock units ("RSUs"), each of which entitles the holder to one share of common stock upon vesting, to certain officers and employees at a fair value of \$111.45 per share. The RSUs vest ratably over three years, with one-third vesting on each anniversary of the grant date, and vesting accelerates upon the occurrence of a change in control. Unvested RSUs will be forfeited if the officer or employee leaves the Company prior to the applicable vesting date, except in limited circumstances. The RSUs have no voting rights but entitle the holder to receive dividend equivalents.

In addition, on February 19, 2018, the Company granted 41,868 RSUs, contingent on the achievement of performance conditions including 20,934 RSUs, at a fair value of \$115.90 per RSU, related to earnings per share during the performance period and 20,934 RSUs, at a fair value of \$122.00 per RSU, related to total shareholder return during the performance period. The Company used the Monte Carlo valuation model method to estimate the fair value of the total shareholder return RSUs which incorporated the following assumptions: risk-free interest rate (2.36)%, three-year volatility (19.2)% and three year correlation with S&P 500 Index (0.30). Each of these performance shares has a performance condition under which the number of units ultimately awarded will vary from 0% to 200% of the original grant, with each unit representing the contingent right to receive one share of our common stock. The vesting period for the RSUs contingent on the achievement of performance is three years. For each of the performance awards, the RSUs will be settled in shares of our common stock following vesting of the RSU assuming that the participant has been continuously employed during the vesting period, subject to acceleration in the event of a change in control of the Company or in the event of a participant's earlier death or disability. Participants have no voting rights with respect to the RSUs until the issuance of the shares of stock. Dividends are accrued by the Company and will be paid once the RSUs contingent on the achievement of performance conditions vest.

On May 15, 2018, the Company granted 92 RSUs, each of which entitles the holder to one share of common stock upon vesting, to certain officers and employees at a fair value \$108.11 per share. The RSUs vest ratably over three-years, with one-third vesting on each anniversary of the grant date, and vesting accelerates upon the occurrence of a change in control. Unvested RSUs will be forfeited if the officer or employee leaves the Company prior to the applicable vesting date, except in limited circumstances. The RSUs have no voting rights but entitle the holder to receive dividend equivalents.

On May 17, 2018, the Company granted 13,296 shares of stock, at a fair value of \$108.38 per share, to non-employee members of the board of directors. The shares have a one-year vesting period and vesting accelerates upon the occurrence of a change in control of the Company. Unvested portions of the stock will be forfeited if the director leaves the Company prior to the applicable vesting date.

On May 17, 2018, the Company granted 1,107 RSUs, each of which entitles the holder to one share of common stock upon vesting, to certain officers and employees at a fair value \$108.38 per share. The RSUs vest ratably over three-years, with one-third vesting on each anniversary of the grant date, and vesting accelerates upon the occurrence of a change in control. Unvested RSUs will be forfeited if the officer or employee leaves the Company prior to the applicable vesting date, except in limited circumstances. The RSUs have no voting rights but entitle the holder to receive dividend equivalents.

On May 17, 2018, the Company granted 6,459 RSUs, each of which entitles the holder to one share of common stock upon vesting, to certain officers and employees at a fair value of \$108.38 per share. The RSUs vest on either February 19, 2021 or the third anniversary of the grant date, and vesting accelerates upon the occurrence of a change in control. Unvested RSUs will be forfeited if the officer or employee leaves the Company prior to the applicable vesting



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date, except in limited circumstances. The RSUs have no voting rights but entitle the holder to receive dividend equivalents.

The Company recognized stock-based compensation expense of \$10.0 million and \$9.2 million for the three months ended June 30, 2018 and 2017, respectively, and \$21.0 million and \$30.1 million for the six months ended June 30, 2018 and 2017, respectively. Stock-based compensation expense is included in compensation and benefits and acquisition-related costs in the condensed consolidated statements of income.

The activity in the Company's stock options, restricted stock and restricted stock units for the six months ended June 30, 2018 was as follows:

## Stock Options

Summary stock option activity is presented below:

	Number of Shares	Weighted Average Exercise Price	Weighted Average Remaining Contractual Term (years)	Aggregate Intrinsic Value (in millions)
Outstanding, December 31, 2017	442,042	\$ 25.36	1.0	\$ 17.5
Granted	—	—	—	—
Exercised	(40,133)	19.26		
Outstanding and expected to vest at June 30, 2018	401,909	\$ 25.97	5.0	\$ 31.4
Exercisable at June 30, 2018	361,374	\$ 25.73	4.9	\$ 28.3

Summary of the status of nonvested options is presented below:

Nonvested options	Options	Weighted Average Grant- Date Fair Value
January 1, 2018 — Nonvested	81,068	\$ 49.17
Granted	—	—
Vested	(40,533)	49.17
Forfeited	—	—
June 30, 2018 — Nonvested	40,535	\$ 49.17

In the six months ended June 30, 2018, to satisfy employee's tax obligations and cash exercise payment due upon the election to exercise 40,133 stock options, the Company purchased 7,088 shares at a cost of \$0.8 million.

As of June 30, 2018, there were \$0.8 million in total unrecognized compensation costs related to stock options. These costs are expected to be recognized over a weighted average period of 0.5 years as the stock options vest.

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Restricted Stock and Restricted Stock Units

Summary restricted stock activity is presented below:

	Number of shares	Weighted average grant date fair value
Nonvested stock at December 31, 2017	1,068,392	\$ 77.19
Granted	209,839	111.13
Vested	(362,996)	74.12
Forfeited	(2,272)	79.52
Nonvested stock at June 30, 2018	912,963	\$ 87.29

In the six months ended June 30, 2018, to satisfy employees' tax obligations upon the vesting of restricted stock, the Company purchased 142,057 shares totaling \$16.8 million as the result of the vesting of 362,996 shares of restricted stock.

As of June 30, 2018, there were \$49.9 million in total unrecognized compensation costs related to restricted stock and restricted stock units. These costs are expected to be recognized over a weighted average period of 2.0 years.

## 19. INCOME TAXES

The Company records income tax expense during interim periods based on the best estimate of the full year's tax rate as adjusted for discrete items, if any, that are taken into account in the relevant interim period. Each quarter, the Company updates its estimate of the annual effective tax rate and any change in the estimated rate is recorded on a cumulative basis.

The effective tax rate from continuing operations was 30.8% and 35.9% for the three months ended June 30, 2018 and 2017, respectively, and 28.0% and 33.1% for the six months ended June 30, 2018 and 2017, respectively. The decrease in the effective tax rate for the three and six months ended June 30, 2018 against the comparable period in the prior year was primarily due to a lower corporate income tax rate in 2018.

On December 22, 2017, the U.S. enacted the Jobs Act. The Jobs Act significantly changes U.S. corporate income tax laws by, among other things, reducing the U.S. corporate income tax rate to 21% starting in 2018 and creating a territorial tax system with a one-time mandatory tax on previously deferred foreign earnings of U.S. subsidiaries. The change in the effective tax rate was due to the tax benefit associated with re-measuring net deferred tax liabilities as a result of the Jobs Act. Due to the timing of the enactment and the complexity involved in applying the provisions of the Jobs Act, we made reasonable estimates of the effects and recorded provisional amounts in our financial statements as of December 31, 2017. As we collect and prepare necessary data and interpret the Jobs Act and any additional guidance issued by the U.S. Treasury Department, the Internal Revenue Service, and other standard-setting bodies, we may make adjustments to the provisional amounts.

We recorded a \$191.3 million net tax benefit in 2017 associated with the impact of the Jobs Act primarily due to the tax benefit associated with re-measuring net deferred tax liabilities. Although the \$191.3 million net benefit represents what Cboe continues to believe is a reasonable estimate of the impact of the income tax effects of the Jobs Act on Cboe's condensed consolidated financial statements as of June 30, 2018, it should be considered provisional. Once Cboe finalizes certain tax positions and files its 2017 U.S. tax return it will be able to conclude whether any further adjustments are required to its net deferred tax liability as well as to the liability associated with the one-time mandatory deemed repatriation tax. Any adjustments to these provisional amounts will be reported as a component of Tax expense (benefit) in the reporting period in which any such adjustments are determined, which will be no later than the fourth quarter of 2018.

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## 20. NET INCOME PER COMMON SHARE

The computation of basic net income allocated to common stockholders is calculated by reducing net income for the period by dividends paid or declared and undistributed net income for the period that are allocated to participating securities to arrive at net income allocated to common stockholders. Net income allocated to common stockholders is divided by the weighted average number of common shares outstanding during the period to determine net income per share allocated to common stockholders.

The computation of diluted earnings per share is calculated by dividing net income allocated to common stockholders by the sum of the weighted average number of common shares outstanding plus all additional common shares that would have been outstanding if the potentially dilutive common shares had been issued. The dilutive effect is calculated using the more dilutive of the two-class or treasury stock method.

Additionally, the change in the redemption value for the noncontrolling interest reduces net income allocated to common stockholders.

The following table reconciles net income allocated to common stockholders and the number of shares used to calculate the basic and diluted net income per common share for the three and six months ended June 30, 2018 and 2017:

(in millions, except per share amounts)	Three Months Ended		Six Months	
	June 30, 2018	2017	Ended June 30, 2018	2017
Basic EPS Numerator:				
Net Income	\$ 83.0	\$ 68.0	\$ 201.1	\$ 83.2
Loss attributable to noncontrolling interest	0.3	0.3	0.6	0.6
Net Income excluding noncontrolling interest	83.3	68.3	201.7	83.8
Change in redemption value of noncontrolling interest	(0.3)	(0.3)	(0.6)	(0.6)
Earnings allocated to participating securities	(0.6)	(0.7)	(1.4)	(0.8)
Net Income allocated to common stockholders	\$ 82.4	\$ 67.3	\$ 199.7	\$ 82.4
Basic EPS Denominator:				
Weighted average shares outstanding	112.0	112.1	112.2	102.1
Basic Net Income Per Common Share	\$ 0.74	\$ 0.60	\$ 1.78	\$ 0.81
Diluted EPS Numerator:				
Net Income	\$ 83.0	\$ 68.0	\$ 201.1	\$ 83.2
Loss attributable to noncontrolling interest	0.3	0.3	0.6	0.6
Net Income excluding noncontrolling interest	83.3	68.3	201.7	83.8
Change in redemption value of noncontrolling interest	(0.3)	(0.3)	(0.6)	(0.6)
Earnings allocated to participating securities	(0.6)	(0.7)	(1.4)	(0.8)
Net Income allocated to common stockholders	\$ 82.4	\$ 67.3	\$ 199.7	\$ 82.4
Diluted EPS Denominator:				
Weighted average shares outstanding	112.0	112.1	112.2	102.1
Dilutive common shares issued under stock program	0.3	0.4	0.4	0.2

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Total dilutive weighted average shares	112.3	112.5	112.6	102.3
Diluted Net Income Per Common Share	\$ 0.73	\$ 0.60	\$ 1.77	\$ 0.81

For the periods presented, the Company did not have shares of stock-based compensation that would have an anti-dilutive effect on the computation of diluted net income per common share.

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21. COMMITMENTS AND CONTINGENCIES

Legal Proceedings

As of June 30, 2018, the Company was subject to the various legal proceedings and claims discussed below, as well as certain other legal proceedings and claims that have not been fully resolved and that have arisen in the ordinary course of business.

The Company reviews its legal proceedings and claims, regulatory reviews and inspections and other legal proceedings on an ongoing basis and follows appropriate accounting guidance when making accrual and disclosure decisions. The Company establishes accruals for those contingencies where the incurrence of a loss is probable and can be reasonably estimated, and the Company discloses the amount accrued and the amount of a reasonably possible loss in excess of the amount accrued, if such disclosure is necessary for our financial statements to not be misleading. The Company does not record liabilities when the likelihood that the liability has been incurred is probable, but the amount cannot be reasonably estimated, or when the liability is believed to be only reasonably possible or remote. The Company's assessment of whether a loss is reasonably possible or probable is based on its assessment of the ultimate outcome of the matter following all appeals.

As of June 30, 2018, the Company does not believe that there is a reasonable possibility that any material loss exceeding the amounts already recognized for these reviews, inspections or other legal proceedings, if any, has been incurred. While the consequences of certain unresolved proceedings are not presently determinable, the outcome of any litigation is inherently uncertain and an adverse outcome from certain matters could have a material effect on our earnings in any given reporting period. However, in the opinion of management, the ultimate liability is not expected to have a material effect on our financial position, liquidity or capital resources.

Except as set forth herein, there have been no material changes during the period covered by this Form 10 Q from the legal proceedings disclosures in our Annual Report on Form 10 K for the year ended December 31, 2017.

City of Providence

On April 18, 2014, the City of Providence, Rhode Island filed a securities class action lawsuit in the Southern District of New York against Bats and Direct Edge Holdings LLC, as well as 14 other securities exchanges. The action purports to be brought on behalf of all public investors who purchased and/or sold shares of stock in the United States since April 18, 2009 on a registered public stock exchange ("Exchange Defendants") or a U.S.-based alternate trading venue and were injured as a result of the alleged misconduct detailed in the complaint, which includes allegations that the Exchange Defendants committed fraud through a variety of business practices associated with, among other things, what is commonly referred to as high frequency trading. On May 2, 2014 and May 20, 2014, American European Insurance Company and Harel Insurance Co., Ltd. each filed substantially similar class action lawsuits against the Exchange Defendants which were ultimately consolidated with the City of Providence, Rhode Island securities class action lawsuit. On June 18, 2015, the Southern District of New York (the "Lower Court") held oral argument on the pending Motion to Dismiss and thereafter, on August 26, 2015, the Lower Court issued an Opinion and Order granting Exchange Defendants' Motion to Dismiss, dismissing the complaint in full. Plaintiff filed a Notice of Appeal of the dismissal on September 24, 2015 and its appeal brief on January 7, 2016. Respondent's brief was filed on April 7, 2016 and oral argument was held on August 24, 2016. Following oral argument, the Court of Appeals issued an order requesting that the SEC submit an amicus brief on whether the Lower Court had jurisdiction and

whether the Exchange Defendants have immunity in the claims alleged. The SEC filed its amicus brief with the Court of Appeals on November 28, 2016 and Plaintiff and the Exchange Defendants filed their respective supplemental response briefs on December 12, 2016. On December 19, 2017, the Court of Appeals reversed the Lower Court's dismissal and remanded the case back to the Lower Court. On March 13, 2018, the Court of Appeals denied the Exchange Defendants' motion for re-hearing. The Exchange Defendants filed their opening brief for their motion to dismiss May 18, 2018, Plaintiffs' response was filed June 15, 2018 and the Exchange Defendants' reply was filed June 29, 2018. Given the preliminary



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nature of the proceedings, the Company is unable to estimate what, if any, liability may result from this litigation. However, the Company believes that the claims are without merit and intends to litigate the matter vigorously.

VIX Litigation

On March 20, 2018, a putative class action complaint captioned *Tomasulo v. Cboe Exchange, Inc., et al.*, No. 18-cv-02025 was filed in federal district court for the Northern District of Illinois alleging that the Company intentionally designed its products, operated its platforms, and formulated the method for calculating VIX and the Special Opening Quotation, (i.e., the special VIX value designed by the Company and calculated on the settlement date of VIX derivatives prior to the opening of trading), in a manner that could be collusively manipulated by a group of entities named as John Doe defendants. A number of similar putative class actions, some of which do not name the Company as a party, have been filed in federal court in Illinois and New York on behalf of investors in certain volatility-related products. On June 14, 2018, the Judicial Panel on Multidistrict Litigation centralized the putative class actions in the federal district court for the Northern District of Illinois. The cases assert causes of action for, among others, alleged violations of the Sherman Act, the Commodity Exchange Act and/or the Securities Exchange Act. Plaintiffs seek damages in an unspecified amount, and relief including treble damages, punitive damages and/or restitution, injunctive and equitable relief, pre and post judgment interest, attorneys' fees and expenses and such other relief as the court may deem just and proper. Given the preliminary nature of the proceedings, the Company is still evaluating the facts underlying the complaints, however, the Company currently believes that the claims are without merit and intends to litigate the matter vigorously. The Company is unable to estimate what, if any, liability may result from this litigation.

Contractual Obligations

The Company currently leases office space, data centers and remote network operations centers, with lease terms remaining ranging from three months to one hundred months as of June 30, 2018. Total rent expense related to these lease obligations, reflected in technology support services and facilities costs line items on the condensed consolidated statements of income, for the three months ended June 30, 2018 and 2017 were \$2.9 million and \$2.7 million, respectively, and \$4.4 million and \$4.4 million for the six months ended June 30, 2018 and 2017.

22. SUBSEQUENT EVENTS

On August 1, 2018, the Company announced that its board of directors declared a quarterly cash dividend of \$0.31 per share. The dividend is payable September 14, 2018 to stockholders of record at the close of business on August 31, 2018.

Additionally, the board of directors increased the share repurchase authorization by \$100 million on August 1, 2018.

There have been no additional subsequent events that would require disclosure in, or adjustment to, the condensed consolidated financial statements as of and for the six months ended June 30, 2018.



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### Item 2. Management’s Discussion and Analysis of Financial Condition and Results of Operations

The following discussion should be read in conjunction with the accompanying unaudited condensed consolidated financial statements and the notes thereto, included in Item 1 in this Quarterly Report on Form 10-Q, and the audited consolidated financial statements in the Company’s Annual Report on Form 10-K for the year ended December 31, 2017, and as contained in that report, the information under the heading “Management’s Discussion and Analysis of Financial Condition and Results of Operations.” This discussion contains forward-looking information. Please see “Forward-Looking Statements” for a discussion of the uncertainties, risks and assumptions associated with these statements.

#### Overview

Cboe Global Markets, Inc. is one of the world’s largest exchange holding companies, offering cutting-edge trading and investment solutions to investors around the world. The Company is committed to relentless innovation, connecting global markets with world-class technology, and providing seamless solutions that enhance the customer experience.

Cboe offers trading across a diverse range of products in multiple asset classes and geographies, including options, futures, U.S. and European equities, exchange-traded products (ETPs), global foreign exchange (FX) and multi-asset volatility products based on the VIX, the world’s barometer for equity market volatility.

Cboe’s trading venues include the largest options exchange in the U.S. by volume and the largest stock exchange by value traded in Europe. In addition, the Company is the second-largest stock exchange operator in the U.S. by volume and a leading market globally for ETP trading.

The Company is headquartered in Chicago with offices in Kansas City, New York, London, San Francisco, Singapore, Hong Kong, and Ecuador.

#### Components of Revenues

##### Transaction Fees

Transaction fees represent fees charged by the Company for the performance obligation of executing a trade on its markets. These fees can be variable based on trade volume tiered discounts, however as all tiered discounts are calculated monthly, the actual discount is recorded on a monthly basis. Transaction fees, as well as any tiered volume discounts, are calculated and billed monthly in accordance with the Company’s published fee schedules. Transaction fees are recognized across all segments. The Company also pays liquidity payments to customers based on its published fee schedules. The Company uses these payments to improve the liquidity on its markets and therefore recognizes those payments as a cost of revenue.

##### Access Fees

Access fees represent fees assessed for the opportunity to trade, including fees for trading-related functionality across all segments. They are billed monthly in accordance with the Company’s published fee schedules and recognized on a monthly basis when the performance obligation is met. There is no remaining performance obligation after revenue is recognized.

##### Exchange Services and Other Fees

To facilitate trading, the Company offers technology services, terminal and other equipment rights, maintenance services, trading floor space and telecommunications services. Trading floor and equipment rights are generally on a month-to-month basis. Facilities, systems services and other fees are generally monthly fee-based, although certain services are influenced by trading volume or other defined metrics, others are based solely on demand. All fees associated with the trading floor are recognized in the Options segment.

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### Market Data Fees

Market data fees represent the fees from the U.S. tape plans and fees from customers for proprietary market data. Fees from the U.S. tape plans are collected monthly based on published fee schedules and distributed quarterly to the U.S. exchanges based on a known formula using trading and/or quoting activity. A contract for proprietary market data is entered into and charged on a monthly basis in accordance with the Company's published fee schedules as the service is provided. Both types of market data are satisfied over time, and revenue is recognized on a monthly basis as the customer receives and consumes the benefit as the Company provides the data. U.S. tape plan market data is recognized in the U.S. Equities and Options segments. Proprietary market data fees are recognized across all segments.

### Regulatory Fees

Regulatory fees primarily represent fees collected by the Company to cover the Section 31 fees charged to the Exchanges under the authority of the SEC (Cboe Options, C2, BZX, BYX, EDGX, and EDGA) and are charged by the SEC. Consistent with industry practice, the fees charged to customers are based on the fee set by the SEC per notional value of the transaction executed on the Company's markets and calculated and billed monthly. These fees are recognized in the U.S. Equities and Options segments and as the exchanges are responsible for the ultimate payment to the SEC, the exchanges are considered the principals in these transactions. Regulatory fees also include the options regulatory fee (ORF) charged to customers which supports the Company's regulatory oversight function in the Options segment.

### Other Revenue

Other revenue primarily includes among other items, revenue from various licensing agreements, all fees related to the trade reporting facility operated in the European Equities segment, and revenue associated with advertisements through the Company's website.

### Components of Cost of Revenues

#### Liquidity Payments

Liquidity payments are directly correlated to the volume of securities traded on our markets. As stated above, we record the liquidity rebates paid to market participants providing liquidity, in the case of C2, BZX, EDGX and Cboe Europe Equities, as cost of revenue. BYX and EDGA offer a pricing model pursuant to which we rebate liquidity takers for executing against an order resting on our book, which is also recorded as a cost of revenue.

#### Routing and clearing

Various rules require that U.S. options and cash equities trade executions occur at the National Best Bid/Offer (NBBO) displayed by any exchange. Linkage order routing consists of the cost incurred to provide a service whereby Cboe equity and options exchanges deliver orders to other execution venues when there is a potential for obtaining a better execution price or when instructed to directly route an order to another venue by the order provider. The service affords exchange order flow providers an opportunity to obtain the best available execution price and may also result in cost benefits to those clients. Such an offering improves our competitive position and provides an opportunity to attract orders which would otherwise bypass our exchanges. We utilize third-party brokers or our broker-dealer, Cboe Trading, to facilitate such delivery.

### Section 31 Fees

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Exchanges under the authority of the SEC (Cboe Options, C2, BZX, BYX, EDGX and EDGA) are assessed fees pursuant to the Exchange Act designed to recover the costs to the U.S. government of supervision and regulation of securities markets and securities professionals. We treat these fees as a pass-through charge to customers executing eligible listed cash equities and listed equity options trades. Accordingly, we recognize the amount that we are charged under Section 31 as a cost of revenues and the corresponding amount that we charge our customers as regulatory

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transaction fees revenue. Since the regulatory transaction fees recorded in revenues are equal to the Section 31 fees recorded in cost of revenues, there is no impact on our operating income. CFE, Cboe Europe Equities and Cboe FX are not U.S. national securities exchanges, and accordingly are not charged Section 31 fees.

### Royalty Fees

Royalty fees primarily consist of license fees paid by us for the use of underlying indexes in our proprietary products usually based on contracts traded. The Company has licenses with the owners of the S&P 500 Index, S&P 100 Index and certain other S&P indexes, the FTSE Russell, DJIA, MSCI indexes, and certain other index products. This category also includes fees related to the dissemination of market data related to S&P indexes.

### Components of Operating Expenses

#### Compensation and Benefits

Compensation and benefits represent our largest expense category and tend to be driven by both our staffing requirements and the general dynamics of the employment market. Stock-based compensation is a non-cash expense related to equity awards. Stock-based compensation can vary depending on the quantity and fair value of the award on the date of grant and the related service period.

#### Depreciation and Amortization

Depreciation and amortization expense results from the depreciation of long-lived assets purchased and the amortization of purchased and internally developed software, and the amortization of intangible assets.

#### Technology Support Services

Technology support services expense consists primarily of costs related to the maintenance of computer equipment supporting our system architecture, circuits supporting our wide area network, support for production software, fees paid to information vendors for displaying data and off-site system hosting fees.

#### Professional Fees and Outside Services

Professional fees and outside services consist primarily of consulting services, which include: the supplementation of staff for activities primarily related to systems development and maintenance, legal, regulatory and audit, and tax advisory services.

#### Travel and Promotional Expenses

Travel and promotional expenses primarily consist of advertising, costs for special events, sponsorship of industry conferences, options education seminars and travel-related expenses.

#### Facilities Costs

Facilities costs primarily consist of expenses related to owned and leased properties including rent, maintenance, utilities, real estate taxes and telecommunications costs.

#### Acquisition-Related Costs

Acquisition-related costs relate to acquisitions and other strategic opportunities, including the Merger. The acquisition-related transaction costs include fees for investment banking advisors, lawyers, accountants, tax advisors, public relations firms, severance, write-offs of obsolete systems and other external costs directly related to mergers and acquisitions.



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### Other Expenses

Other expenses represent costs necessary to support our operations that are not already included in the above categories.

### Other Income (Expense)

Income and expenses incurred through activities outside of our core operations are considered non-operating and are classified as other income (expense). These activities primarily include interest earned on the investing of excess cash, interest expense related to outstanding debt facilities, dividend income and equity earnings or losses from our investments in other business ventures.

### Business Segments

The Company reports five business segments: Options, U.S. Equities, Futures, European Equities, and Global FX. Segment performance is primarily based on operating income (loss). The Company has aggregated all of its corporate costs and eliminations, as well as other business ventures, within Corporate Items and Eliminations; however, operating expenses that relate to activities of a specific segment have been allocated to that segment. Our management allocates resources, assesses performance and manages our business according to these segments:

**Options.** Our Options segment includes the options exchange business, which lists for trading options on market indexes (index options), mostly on an exclusive basis, as well as on non-exclusive "multiply-listed" options, such as options on the stocks of individual corporations (equity options) and options on other exchange-traded products (ETP options), such as exchange-traded funds (ETF options) and exchange-traded notes (ETN options) that occur on Cboe Options, C2, BZX and EDGX. It also includes the listed equity and ETP options routed transaction services that occur on Cboe Trading.

**U.S. Equities.** Our U.S. Equities segment includes listed cash equities and ETP transaction services that occur on BZX, BYX, EDGX and EDGA. It also includes market data revenue generated from the U.S. tape plans as well as revenues generated from the sale of proprietary market data ETP listing, listed cash equities and ETPs routed transaction services, connectivity fees, and advertising activity from ETF.com.

**Futures.** Our Futures segment includes the business of our futures exchange, CFE, which includes offering for trading futures on the VIX Index and bitcoin and other futures products.

**European Equities.** Our European Equities segment includes pan European listed cash equities transaction services, ETPs, exchange traded commodities, and international depository receipts that occur on the RIE, operated by Cboe Europe Equities. It also includes the listed cash equities and ETPs routed transaction services that occur on Cboe Chi-X Europe, as well as the listings business where ETPs can be listed on Cboe Europe Equities.

**Global FX.** Our Global FX segment includes institutional FX trading services that occur on the Cboe FX platform, as well as non-deliverable forward FX transactions executed on Cboe SEF.

### General Factors Affecting Results of Operations

In broad terms, our business performance is impacted by a number of drivers, including macroeconomic events affecting the risk and return of financial assets, investor sentiment, the regulatory environment for capital markets, geopolitical events, central bank policies and changing technology, particularly in the financial services industry. Our future revenues and net income will continue to be influenced by a number of domestic and international economic

trends, including:

- trading volumes on our proprietary products such as the VIX options and futures and SPX options;

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- trading volumes in listed cash equity securities and ETPs in both the U.S. and Europe, volumes in listed equity options, and volumes in institutional FX trading, all of which are driven primarily by overall macroeconomic conditions;
- the demand for the U.S. tape plan market data distributed by the Securities Information Processors (SIPs), which determines the pool size of the industry market data revenue we receive based on our market share;
- the demand for information about, or access to, our markets, which is dependent on the products we trade, our importance as a liquidity center and the quality and pricing of our data and access services;
- continuing pressure in transaction fee pricing due to intense competition in the United States and Europe; and
- regulatory changes relating to market structure, increased capital requirements or affecting certain types of instruments, transactions, pricing structures, capital market participants or reporting or compliance requirements, including any changes resulting from Brexit.

A number of significant structural, political and monetary issues continue to confront the global economy, and instability could return at any time, resulting in an increased level of market volatility, increased trading volumes and greater uncertainty. In contrast, many of the largest customers of our transactional businesses continue to adapt their business models as they address the implementation of regulatory changes initiated following the global financial crisis.

## Financial Summary

The comparability of our results of operations between reported periods is impacted by the acquisition of Bats on February 28, 2017. Operating results and other financial metrics for U.S. Equities, European Equities and Global FX represent activity for the three and six months ended June 30, 2018, and three and four months ended June 30, 2017 as a result of the Bats acquisition on February 28, 2017. The following summarizes changes in financial performance for the three and six months ended June 30, 2018 and 2017 and certain non-GAAP financial measures. These non-GAAP financial measures assist management in comparing our performance on a consistent basis for purposes of business decision making by removing the impact of certain items management believes do not reflect our underlying operations. Please see the footnotes below for additional information and reconciliations from our condensed consolidated financial statements.

	Three Months Ended					Six Months Ended				
	June 30, 2018	2017	Increase/ (Decrease)	Percent Change		June 30, 2018	2017	Increase/ (Decrease)	Percent Change	
	(in millions, except percentages, earnings per share, and as noted below)					(in millions, except percentages, earnings per share, and as noted below)				
Total revenues	\$ 667.5	\$ 640.8	\$ 26.7	4.2	%	\$ 1,445.2	\$ 997.0	\$ 448.2	45.0	%
Total cost of revenues	384.0	373.9	10.1	2.7	%	833.2	536.7	296.5	55.2	%
Revenues less cost of revenues	283.5	266.9	16.6	6.2	%	612.0	460.3	151.7	33.0	%
Total operating expenses	154.4	149.1	5.3	3.6	%	315.2	316.4	(1.2)	(0.4)	%
Operating income	129.1	117.8	11.3	9.6	%	296.8	143.9	152.9	106.3	%
Income before	119.8	106.1	13.7	12.9	%	279.2	124.4	154.8	124.4	%

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income tax provision										
Income tax provision	36.8	38.1	(1.3)	(3.4)	%	78.1	41.2	36.9	89.6	%
Net income	\$ 83.0	\$ 68.0	\$ 15.0	22.1	%	\$ 201.1	\$ 83.2	\$ 117.9	141.7	%
Basic earnings per share	\$ 0.74	\$ 0.60	\$ 0.14	23.3	%	\$ 1.78	\$ 0.81	\$ 0.97	119.8	%
Diluted earnings per share	0.73	0.60	0.13	21.7	%	1.77	0.81	0.96	118.5	%
EBITDA(1)	178.9	173.7	5.2	3.0	%	401.3	224.9	176.4	78.4	%
EBITDA margin(2)	63.1 %	65.1 %	(2.0) %		*	65.6 %	48.9 %	16.7 %		*
Adjusted EBITDA(1)	\$ 187.5	\$ 178.9	\$ 8.6	4.8	%	\$ 418.7	\$ 304.6	\$ 114.1	37.5	%
Adjusted EBITDA margin(3)	66.1 %	67.0 %	(0.9) %		*	68.4 %	66.2 %	2.2 %		*
Adjusted earnings(4)	\$ 118.2	\$ 98.0	\$ 20.2	20.6	%	\$ 273.4	\$ 170.2	\$ 103.2	60.6	%
Diluted weighted average shares outstanding	112.3	112.5	(0.2)	(0.2)	%	112.6	102.3	10.3	10.1	%
Diluted Adjusted earnings per share(5)	\$ 1.05	\$ 0.87	\$ 0.18	20.7	%	\$ 2.43	\$ 1.66	\$ 0.77	46.4	%

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	Three Months Ended					Six Months Ended				
	June 30, 2018	2017	Increase/ (Decrease)	Percent Change		June 30, 2018	2017	Increase/ (Decrease)	Percent Change	
	(in millions, except percentages, trading days, and as noted below)					(in millions, except percentages, trading days, and as noted below)				
Options:										
Average daily volume (ADV) (in millions of contracts):										
Total touched contracts	7.1	7.0	0.1	1.4	%	6.6	6.9	(0.3)	(4.3)	%
Market ADV	18.8	16.7	2.1	12.6	%	20.6	16.6	4.0	24.1	%
Index contract ADV	1.8	1.9	(0.1)	(5.3)	%	2.3	1.9	0.4	21.1	%
Number of trading days	64	63	1	1.6	%	125	125	—	—	%
Total Options revenue per contract (RPC)	\$ 0.241	\$ 0.225	\$ 0.016	7.1	%	\$ 0.248	\$ 0.253	\$ (0.005)	(2.0)	%
Multiply Listed Options RPC	0.063	0.060	0.003	5.0	%	0.061	0.063	(0.002)	(3.2)	%
Index Options RPC	0.753	0.694	0.059	8.5	%	0.727	0.701	0.026	3.7	%
Market share U.S.	37.7 %	42.2 %	(4.5) %	*		39.7 %	38.2 %	1.5 %	*	
Equities:										
ADV:										
Total touched shares (in billions)	1.4	1.4	—	0.0	%	1.5	1.4	0.1	7.1	%
Market ADV (in billions)	6.9	6.9	—	0.0	%	7.2	6.9	0.3	4.3	%
Trading days	64	63	1	1.6	%	125	86	39	45.3	%
Market share	18.9 %	19.2 %	(0.3) %	*		19.1 %	19.2 %	(0.1) %	*	

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U.S. Equities (net capture per one hundred touched shares)(7)	\$ 0.023	0.023	—	—	%	\$ 0.023	\$ 0.023	—	—	%
U.S. ETPs: launches (number of launches)	15	26	(11)	(42.3)	%	36	41	(5)	(12.2)	%
U.S. ETPs: listings (number of listings)	275	181	94	51.9	%	275	181	94	51.9	%
Futures: ADV (in thousands)	257.8	306.8	(48.9)	(16.0)	%	311.5	296.4	15.1	5.1	%
Trading days	64	63	1	1.6	%	125	125	—	—	%
Revenue per contract	\$ 1.633	\$ 1.762	\$ (0.129)	(7.3)	%	\$ 1.687	\$ 1.765	\$ (0.078)	(4.4)	%
European Equities: ADNV: Matched and touched ADNV (in billions)	€ 10.5	€ 10.3	€ 0.2	1.9	%	€ 10.7	10.3	0.4	3.9	%
Market ADNV (in billions)	47.4	48.6	(1.2)	(2.5)	%	49.1	48.3	0.8	1.7	%
Trading days	64	63	1	1.6	%	127	86	41	47.7	%
Market share	22.2 %	21.3 %	0.9 %	*		21.7 %	21.3 %	0.4 %	*	
European Equities (net capture per matched notional value in basis points)(8)	0.183	0.162	0.021	13.0	%	0.187	0.162	0.025	15.4	%
Average Euro/British pound exchange rate	£ 0.876	£ 0.856	£ 0.020	2.3	%	£ 0.880	£ 0.861	£ 0.019	2.2	%
Global FX: ADNV (in billions)	\$ 38.4	\$ 27.9	\$ 10.5	37.6	%	\$ 40.0	28.4	11.6	40.8	%
Trading days	65	65	—	—	%	129	88	41	46.6	%
Global FX (net capture	2.56	2.65	(0.09)	(3.4)	%	2.51	2.64	(0.13)	(4.9)	%

per one million dollars traded)(9) Average British pound/U.S. dollar exchange rate	\$ 1.361	\$ 1.278	\$ 0.083	6.5	%	\$ 1.376	\$ 1.256	\$ 0.120	9.6	%
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\*Not meaningful

(1) EBITDA is defined as income before interest, income taxes, depreciation and amortization. Adjusted EBITDA is defined as EBITDA before acquisition-related costs and accelerated stock-based compensation. EBITDA and adjusted EBITDA do not represent, and should not be considered as, alternatives to net income or cash flows from operations, each as determined in accordance with GAAP. We have presented EBITDA and adjusted EBITDA because we consider them important supplemental measures of our performance and believe that they are frequently used by analysts, investors and other interested parties in the evaluation of companies. In addition, we use adjusted EBITDA as a measure of operating performance for preparation of our forecasts, evaluating our leverage ratio for the debt to earnings covenant included in our outstanding credit facility. Other companies may calculate EBITDA and adjusted EBITDA differently than we do. EBITDA and adjusted EBITDA have limitations as analytical tools, and you should not consider them in isolation or as substitutes for analysis of our results as reported under GAAP.

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The following tables are reconciliations of net income allocated to common stockholders to EBITDA and adjusted EBITDA (in millions):

	Three Months Ended June 30, 2018						
	Options (in millions)	U.S. Equities	Futures	European Equities	Global FX	Corporate	Total
Net income (loss) allocated to common stockholders	\$ 78.2	\$ 36.9	\$ 16.3	\$ 3.7	\$ (1.8)	\$ (50.9)	\$ 82.4
Interest	—	—	—	—	—	9.3	9.3
Income tax provision	—	0.6	—	2.7	0.1	33.4	36.8
Depreciation and amortization	12.1	21.3	0.1	7.9	8.6	0.4	50.4
EBITDA	90.3	58.8	16.4	14.3	6.9	(7.8)	178.9
Acquisition-related costs	5.8	—	—	0.4	—	2.4	8.6
Adjusted EBITDA	\$ 96.1	\$ 58.8	\$ 16.4	\$ 14.7	\$ 6.9	\$ (5.4)	\$ 187.5
	Three Months Ended June 30, 2017						
	Options (in millions)	U.S. Equities	Futures	European Equities	Global FX	Corporate	Total
Net income (loss) allocated to common stockholders	\$ 34.7	\$ 32.8	\$ 33.4	\$ 1.8	\$ (4.2)	\$ (31.2)	\$ 67.3
Interest	—	—	—	—	—	12.5	12.5
Income tax provision	35.6	0.6	—	1.8	0.1	—	38.1
Depreciation and amortization	14.2	24.4	0.4	7.4	9.1	0.3	55.8
EBITDA	84.5	57.8	33.8	11.0	5.0	(18.4)	173.7
Acquisition-related costs	—	—	—	—	—	4.7	4.7
Change in contingent consideration	—	—	—	—	0.5	—	0.5
Adjusted EBITDA	\$ 84.5	\$ 57.8	\$ 33.8	\$ 11.0	\$ 5.5	\$ (13.7)	\$ 178.9



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	Six Months Ended June 30, 2018						
	Options (in millions)	U.S. Equities	Futures	European Equities	Global FX	Corporate	Total
Net income (loss) allocated to common stockholders	\$ 191.4	\$ 70.0	\$ 42.3	\$ 7.3	\$ (4.8)	\$ (106.5)	\$ 199.7
Interest	—	—	—	—	—	18.9	18.9
Income tax provision (benefit)	0.8	1.1	—	5.4	0.1	70.7	78.1
Depreciation and amortization	23.5	44.9	1.4	16.1	18.0	0.7	104.6
EBITDA	215.7	116.0	43.7	28.8	13.3	(16.2)	401.3
Acquisition-related costs	13.3	—	—	0.8	—	3.3	17.4
Adjusted EBITDA	\$ 229.0	\$ 116.0	\$ 43.7	\$ 29.6	\$ 13.3	\$ (12.9)	\$ 418.7
	Six Months Ended June 30, 2017						
	Options (in millions)	U.S. Equities	Futures	European Equities	Global FX	Corporate	Total
Net income (loss) allocated to common stockholders	\$ 97.6	\$ 44.7	\$ 59.3	\$ 2.7	\$ (5.4)	\$ (116.5)	\$ 82.4
Interest	—	—	—	—	—	20.4	20.4
Income tax provision (benefit)	37.7	0.9	—	2.5	0.1	—	41.2
Depreciation and amortization	25.1	32.5	0.7	9.9	12.1	0.6	80.9
EBITDA	160.4	78.1	60.0	15.1	6.8	(95.5)	224.9
Acquisition-related costs	—	—	—	—	—	69.9	69.9
Change in contingent consideration	—	—	—	—	0.7	—	0.7
Accelerated stock-based compensation	—	—	—	—	—	9.1	9.1
Adjusted EBITDA	\$ 160.4	\$ 78.1	\$ 60.0	\$ 15.1	\$ 7.5	\$ (16.5)	\$ 304.6

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

(3) Adjusted EBITDA margin represents adjusted EBITDA divided by revenues less cost of revenues.

(4) Adjusted earnings is defined as net income adjusted for amortization of purchased intangibles, acquisition-related costs, legal settlements, and accelerated stock-based compensation, net of the income tax effects of these adjustments. Adjusted earnings does not represent, and should not be considered as, an alternative to net income, as determined in accordance with GAAP. We have presented adjusted earnings because we consider it an important supplemental measure of our performance and we use it as the basis for monitoring our own core operating financial performance relative to other operators of exchanges. We also believe that it is frequently used by analysts, investors and other interested parties in the evaluation of companies. We believe that investors may find this non-GAAP measure useful in evaluating our performance compared to that of peer companies in our industry. Other companies may calculate adjusted earnings differently than we do. Adjusted earnings has

limitations as an analytical tool, and you should not consider it in isolation or as a substitute for analysis of our results as reported under GAAP.

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The following is a reconciliation of net income allocated to common stockholders to adjusted earnings (in millions):

	Three Months Ended		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017
	(in millions)		(in millions)	
Net income allocated to common stockholders	\$ 82.4	\$ 67.3	\$ 199.7	\$ 82.4
Amortization	39.7	42.6	81.8	57.0
Acquisition-related costs	8.6	4.7	17.4	69.9
Debt issuance costs	—	0.9	—	0.9
Accelerated stock-based compensation	—	—	—	9.1
Interest and other borrowing costs	—	—	—	4.3
Change in fair value of contingent consideration	—	0.5	—	0.7
Change in redemption value of noncontrolling interest	0.3	0.3	0.6	0.6
Tax effect of adjustments	(12.6)	(18.0)	(25.6)	(54.0)
Net income allocated to participating securities	(0.2)	(0.3)	(0.5)	(0.7)
Adjusted earnings	\$ 118.2	\$ 98.0	\$ 273.4	\$ 170.2

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- (5) Diluted Adjusted earnings per share represents Adjusted earnings divided by diluted weighted average shares outstanding.
- (6) Net capture per one hundred touched shares refers to transaction fees less liquidity payments and routing and clearing costs divided by the product of one-hundredth ADV of touched shares on BZX, BYX, EDGX and EDGA and the number of trading days for the period.
- (7) Net capture per matched notional value refers to transaction fees less liquidity payments in British pounds divided by the product of ADV in British pounds of shares matched on Cboe Europe Equities and the number of trading days for the period.
- (8) Net capture per one million dollars traded refers to transaction fees less liquidity payments, if any, divided by the product of one-thousandth of ADV traded on the Cboe FX market and the number of trading days, divided by two, which represents the buyer and seller that are both charged on the transaction for the period.

## Revenues

Total revenues increased in the three months and six months ended June 30, 2018, primarily as a result of increased transaction fees in the Options segment driven by a 8.5% increase and a 3.7% increase in index options revenue per contract, respectively. Also contributing to the increase was an increase in market data fees due to pricing changes enacted in the first quarter 2018. Generally, for the six months ended June 30, 2018 the increases were primarily driven by the additional two months of activity in 2018 from the Bats acquisition.

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The following summarizes changes in revenues for the three and six months ended June 30, 2018 compared to the three and six months ended June 30, 2017:

	Three Months Ended					Six Months Ended				
	June 30, 2018	2017	Increase/ (Decrease)	Percent Change		June 30, 2018	2017	Increase/ (Decrease)	Percent Change	
	(in millions, except percentages)					(in millions, except percentages)				
Transaction fees	\$ 464.8	\$ 453.9	\$ 10.9	2.4	%	\$ 1,011.9	\$ 710.3	\$ 301.6	42.5	%
Access fees	31.2	29.7	1.5	5.1	%	59.8	47.5	12.3	25.9	%
Exchange services and other fees	21.0	19.9	1.1	5.5	%	43.0	35.3	7.7	21.8	%
Market data fees	52.5	48.0	4.5	9.4	%	106.7	70.5	36.2	51.3	%
Regulatory fees	89.3	83.3	6.0	7.2	%	205.6	121.6	84.0	69.1	%
Other revenue	8.7	6.0	2.7	45.0	%	18.2	11.8	6.4	54.2	%
Total revenues	\$ 667.5	\$ 640.8	\$ 26.7	4.2	%	\$ 1,445.2	\$ 997.0	\$ 448.2	45.0	%

## Transaction Fees

Transaction fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 increased primarily driven by increased revenue per contract in index options of 8.5% in the three months ended June 30, 2018 and increased index options volumes of 76.9% for the six months ended June 30, 2018. The six months ended June 30, 2018 also had a 10.8% increase in futures ADV over the same period in the prior year.

## Access fees

Access fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017. For the three months ended June 30, 2018 the increase was primarily driven by an increase in the Futures segment's access fees, as the pricing model was revised with the migration of the futures exchange to Bats technology on February 28, 2018. For the six months ended June 30, 2018, the increase was primarily driven by the additional two months of activity in 2018 from the Bats acquisition that added \$11.8 million to access fee revenue.

## Exchange services and other fees

Exchange services and other fees remained relatively flat for the three months ended June 30, 2018 compared to the same period in 2017 and increased for the six months ended June 30, 2018 primarily driven by the additional two months of activity in 2018 from the Bats acquisition that added \$5.7 million.

## Market Data Fees

Market data fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to pricing changes and subscriber growth in the U.S. Equities segment that contributed \$2.7 million and an increase in Futures segment market data revenue of \$1.0 million, driven by price increases for the three months ended June 30, 2018 compared to the prior period. For the six months ended June 30, 2018 market data revenue increased over the prior year period driven by the additional two months of activity in 2018 from the Bats acquisition that added \$29.7 million and an audit recovery in the U.S. Equities segment that added \$3.1 million to market data fees.

#### Regulatory Fees

Regulatory transaction fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to increased trading volumes in U.S. equities and multiply-listed options.

#### Other Revenue

Other revenue increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to increased revenues for the European trade reporting facility of \$1.0 million and \$2.0 million,

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respectively and additional fines recognized of \$1.8 million and \$2.0 million for the three and six months ended June 30, 2018, respectively.

## Cost of Revenues

Cost of revenues increased in the three and six months ended June 30, 2018 compared to the same period in 2017 primarily due to increased liquidity payments in the U.S. Equities segment driven by a 2.9% increase in liquidity payments per 100 shares. Generally, for the six months ended June 30, 2018 the increases were primarily driven by the additional two months of activity in 2018 from the Bats acquisition.

The following summarizes changes in cost of revenues for the three and six months ended June 30, 2018 compared to the three and six months ended June 30, 2017:

	Three Months Ended					Six Months Ended				
	June 30, 2018	2017	Increase/ (Decrease)	Percent Change		June 30, 2018	2017	Increase/ (Decrease)	Percent Change	
	(in millions, except percentages)					(in millions, except percentages)				
Liquidity payments	\$ 271.1	\$ 266.5	\$ 4.6	1.7	%	\$ 574.0	\$ 371.8	\$ 202.2	54.4	%
Routing and clearing	9.8	12.2	(2.4)	(19.7)	%	20.1	18.5	1.6	8.6	%
Section 31 fees	81.1	74.6	6.5	8.7	%	189.9	104.6	85.3	81.5	%
Royalty fees	22.0	20.6	1.4	6.8	%	49.2	41.8	7.4	17.7	%
Total	\$ 384.0	\$ 373.9	\$ 10.1	2.7	%	\$ 833.2	\$ 536.7	\$ 296.5	55.2	%

## Liquidity Payments

Liquidity payments increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily driven by pricing changes in the U.S. Equities segment that contributed \$5.3 million and \$10.4 million, respectively. Also the increase in liquidity payments for the six months ended June 30, 2018 was due to the two months of additional Bats activity of \$187.7 million.

## Routing and Clearing

The decrease in routing and clearing fees for the three months ended June 30, 2018 compared to the same period in 2017 was primarily driven by a 94.4% decrease in routing fees in the U.S. Equities segment, while the increase in routing and clearing fees for the six months ended June 30, 2018 compared to the same period in 2017 was primarily driven by the additional two months of additional Bats activity of \$5.8 million, partially offset by a 7.8% decrease in routing fees per 100 touched shares in the U.S. Equities segment.

## Section 31 Fees

Section 31 fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily driven by the increased trading volumes in the U.S. equities and multiply listed options.

## Royalty Fees

Royalty fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to higher trading volume in licensed products.

#### Revenues Less Cost of Revenues

Revenues less cost of revenues increased in the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to increased transaction fees from index options and increased market data fees in U.S. Equities. These increases were offset by the decline in Futures transaction fees. Generally, for the six months ended June 30, 2018 the increases were primarily driven by the additional two months of activity in 2018 from the Bats acquisition.

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The following tables summarize the components of revenues less cost of revenues for the three and six months ended June 30, 2018, presented as a percentage of revenues less cost of revenues and compared to the three and six months ended June 30, 2017:

	Three Months Ended				Six Months Ended					
	June 30, 2018 (in millions, except percentages)	2017	Increase/ (Decrease)	Percent Change	June 30, 2018 (in millions, except percentages)	2017	Increase/ (Decrease)	Percent Change		
Transaction fees less liquidity payments and routing and clearing costs	\$ 183.9	\$ 175.2	\$ 8.7	5.0 %	\$ 417.8	\$ 320.0	\$ 97.8	30.6 %		
Access fees	31.2	29.7	1.5	5.1 %	59.8	47.5	12.3	25.9 %		
Exchange services and other fees	21.0	19.9	1.1	5.5 %	43.0	35.3	7.7	21.8 %		
Market data fees	52.5	48.0	4.5	9.4 %	106.7	70.5	36.2	51.3 %		
Regulatory fees, less Section 31 fees	8.2	8.7	(0.5)	(5.7) %	15.7	17.0	(1.3)	(7.6) %		
Royalty fees	(22.0)	(20.6)	(1.4)	6.8 %	(49.2)	(41.8)	(7.4)	17.7 %		
Other	8.7	6.0	2.7	45.0 %	18.2	11.8	6.4	54.2 %		
Revenues less cost of revenues	\$ 283.5	\$ 266.9	\$ 16.6	6.2 %	\$ 612.0	\$ 460.3	\$ 151.7	33.0 %		

**Transaction Fees Less Liquidity Payments and Routing and Clearing Costs**

Transaction fees less liquidity payments and routing and clearing costs increased in the three and six months ended June 30, 2018 compared to the same periods in 2017. For the three months ended June 30, 2018 the increase was primarily driven by an 8.5% increase in index options revenue per contract, contributing \$7.4 million, a 10.2% increase in European Equities net capture, contributing \$3.5 million, a 37.6% increase in FX volumes, contributing \$3.2 million, partially offset by a 16.0% decrease in futures ADV, impacting revenues less cost of revenues by \$7.9 million.

For the six months ended June 30, 2018, the increase was driven by the additional two months of activity from the Bats acquisition of \$38.4 million and a 76.9% increase in index options volumes.

## Access Fees



Access fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017. For the three months ended June 30, 2018 the increase was primarily driven by an increase in the Futures segment access fees as the pricing model was revised with the migration of the futures exchange to Bats technology on February 28, 2018. For the six months ended June 30, 2018, the increase was primarily driven by the additional two months of activity in 2018 from the Bats acquisition that added \$11.8 million to access fee revenue.

#### Exchange services and other fees

Exchange services and other fees remained relatively flat for the three months ended June 30, 2018 compared to the same period in 2017 and increased for the six months ended June 30, 2018 primarily driven by the additional two months of activity in 2018 from the Bats acquisition that added \$5.7 million.

#### Market Data Fees

Market data fees increased for the three months ended June 30, 2018 compared to the same period in 2017 primarily due to pricing changes and subscriber increases in the U.S. Equities segment that contributed \$2.7 million and an increase in Futures market data revenue of \$1.0 million driven by price increases. For the six months ended June 30, 2018 market data revenue increased over the prior period driven by the additional two months of activity in 2018 from the Bats acquisition that added \$29.7 million and an audit recovery in U.S. Equities that added \$3.1 million to market data fees.

#### Regulatory Fees, less Section 31 Fees

Regulatory fees, less Section 31 Fees, remained relatively flat in the three and six months ended June 30, 2018 compared to the same periods in 2017.

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## Royalty Fees

Royalty fees increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to higher trading volume in licensed products.

## Other

Other revenue increased for the three and six months ended June 30, 2018 compared to the same periods in 2017 primarily due to increased revenues for the European trade reporting facility of \$1.0 million and \$2.0 million, respectively and additional levied fines recognized of \$1.8 million and \$2.0 million in the three and six months ended June 30, 2018, respectively.

## Operating Expenses

Total operating expenses increased 3.6% for the three months ended June 30, 2018 and decreased 0.4% for the six months ended June 30, 2018 compared to the prior year period. The following summarizes changes in operating expenses for the three and six months ended June 30, 2018 compared to the three and six months ended June 30, 2017:

	Three Months Ended					Six Months Ended				
	June 30, 2018	2017	Increase/ (Decrease)	Percent Change		June 30, 2018	2017	Increase/ (Decrease)	Percent Change	
	(in millions, except percentages)					(in millions, except percentages)				
Operating Expenses:										
Compensation and benefits	\$ 57.4	\$ 50.0	\$ 7.4	14.8	%	\$ 116.3	\$ 97.8	\$ 18.5	18.9	%
Depreciation and amortization	50.4	55.8	(5.4)	(9.7)	%	104.6	80.9	23.7	29.3	%
Technology support services	11.8	12.0	(0.2)	(1.7)	%	23.9	19.5	4.4	22.6	%
Professional fees and outside services	17.3	16.9	0.4	2.4	%	35.3	31.3	4.0	12.8	%
Travel and promotional expenses	3.5	4.2	(0.7)	(16.7)	%	7.2	7.5	(0.3)	(4.0)	%
Facilities costs	2.9	2.7	0.2	7.4	%	5.3	4.8	0.5	10.4	%
Acquisition-related costs	8.6	4.7	3.9	83.0	%	17.4	69.9	(52.5)	(75.1)	%
Change in contingent consideration	—	0.5	(0.5)	(100.0)	%	—	0.7	(0.7)	(100.0)	%
Other expenses	2.5	2.3	0.2	8.7	%	5.2	4.0	1.2	30.0	%
Total operating expenses	\$ 154.4	\$ 149.1	\$ 5.3	3.6	%	\$ 315.2	\$ 316.4	\$ (1.2)	(0.4)	%

## Compensation and Benefits

Compensation and benefits increased for the three and six months ended June 30, 2018 compared to the same periods in 2017. For the three months ended June 30, 2018, the increase was primarily driven by \$2.0 million of increased salaries and \$1.1 million of additional equity compensation as annual salary increases took effect in the first quarter of 2018. Bonus expense increased \$1.9 million as additional bonus targets were met in the second quarter of 2018. Additionally, \$2.9 million of the expense increase was driven by additional taxes and benefits associated with the previously disclosed increases.

For the six months ended June 30, 2018, the increase was primarily driven by additional bonus expense of \$4.5 million and two months of additional activity from the Bats acquisition that contributed \$13.9 million.

## Depreciation and Amortization

Depreciation and amortization decreased for the three months ended June 30, 2018 compared to the same period in 2017 primarily driven by the decrease in amortization of purchased intangible assets acquired as the cash flow method allocates the most expense to the periods immediately following the acquisition.

The increase in depreciation and amortization for the six months ended June 30, 2018 compared to the same period in 2017 is driven by the two additional months of amortization of the Bats intangible assets in 2018 of \$31.1 million offset slightly by the decrease in 2018 amortization due to the cash flow methodology.

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### Technology Support Services

Technology support services costs were relatively flat for the three months ended June 30, 2018 compared to the same period in the prior year and increased for the six months ended June 30, 2018 compared to the prior year driven by the additional two months of Bats activity that contributed \$4.7 million.

### Professional Fees and Outside Services

Professional fees and outside services also remained flat for the three months ended June 30, 2018 compared to the same period in the prior year. For the six months ended June 30, 2018 the increase was driven by the additional two months of activity related to the Bats acquisition in 2018 of \$3.3 million.

### Acquisition-related costs

Acquisition-related costs increased for the three months ended June 30, 2018 compared to the same period in 2017 primarily driven by increased severance related to synergies related to the Bats acquisition. For the six months ended June 30, 2018, acquisition-related costs decreased due to our acquisition of Bats in 2017. Acquisition-related costs include fees for investment banking advisors, lawyers, accountants, tax advisors, public relations firms, severance and retention costs, impairment of capitalized software and other external costs directly related to the mergers and acquisitions, as well as compensation-related expenses.

### Operating Income

As a result of the items above, operating income for the three and six months ended June 30, 2018 was \$129.1 million and \$296.8 million compared to \$117.8 million and \$143.9 million, respectively, for same periods in 2017.

### Interest Expense, Net

Net interest expense decreased in the three and six months ended June 30, 2018 as the outstanding long term debt balance decreased \$112.0 million from June 30, 2017 to June 30, 2018. Also contributing to the decrease was the debt refinancing in both June 2017 and March 2018.

### Income Before Income Tax Provision

As a result of the above, income before income tax provision for the three and six months ended June 30, 2018 was \$119.8 million and \$279.2 million compared to \$106.1 million and \$124.4 million, respectively, for the same periods in 2017, an increase of \$13.7 million and \$154.8 million, respectively.

### Income Tax Provision

The effective tax rate from continuing operations was 30.8% and 35.9% for the three months ended June 30, 2018 and 2017, respectively, and 28.0% and 33.1% for the six months ended June 30, 2018 and 2017, respectively. The decrease in the effective tax rate for the three and six months ended June 30, 2017 against the comparable periods in the prior year was primarily due to a lower corporate income tax rate in 2018 as a result of the Jobs Act.

### Net Income

As a result of the items above, net income for the three months ended June 30, 2018 was \$83.0 million compared to \$68.0 million for the three months ended June 30, 2017, an increase of \$15.0 million.

As a result of the items above, net income for the six months ended June 30, 2018 was \$201.1 million compared to \$83.2 million for the six months ended June 30, 2017, an increase of \$117.9 million.

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Segment Operating Results

We report results from our five segments: Options, U.S. Equities, Futures, European Equities, and Global FX. Segment performance is primarily based on operating income (loss). We have aggregated all corporate costs, acquisition-related costs, as well as other business ventures, within the Corporate Items and Eliminations as those activities should not be used to evaluate a segment's operating performance. All operating expenses that relate to activities of a specific segment have been allocated to that segment.

The following summarizes our total revenues by segment (in millions, except percentages):

	Three Months Ended			Percentage of Total Revenues Three Months Ended		Six Months Ended			Percentage of Total Revenues Six Months Ended		
	June 30, 2018	2017	Percent Change	June 30, 2018	2017	June 30, 2018	2017	Percent Change	June 30, 2018	2017	
	(in millions, except percentages)			(in millions, except percentages)			(in millions, except percentages)			(in millions, except percentages)	
Options	\$ 244.1	\$ 233.5	4.5 %	36.6%	36.4%	\$ 538.2	\$ 426.2	26.3 %	37.2%	34.7%	
U.S. Equities	343.2	331.1	3.7 %	51.1%	51.7%	733.7	451.3	62.6 %	50.7%	45.3%	
Futures	32.6	37.5	(13.1) %	4.9%	5.9 %	76.5	67.4	13.5 %	5.4%	6.8 %	
European Equities	32.9	27.6	19.2 %	4.9%	4.3 %	67.3	36.9	82.4 %	4.7%	3.7 %	
Global FX	14.5	10.9	33.0 %	2.2%	1.7 %	29.1	14.9	95.3 %	2.0%	1.5 %	
Corporate	0.2	0.2	— %	0.0%	0.0 %	0.4	0.3	33.3 %	0.0%	0.0 %	
Total revenues	\$ 667.5	\$ 640.8	4.2 %	100%	100.0%	\$ 1,445.2	\$ 997.0	45.0 %	100%	100.0%	

Options

The following summarizes revenues less cost of revenues, operating expenses, operating income, EBITDA, and EBITDA margin for our Options segment:

	Three Months Ended			Percentage of Total Revenues Three Months Ended		Six Months Ended			Percentage of Total Revenues Six Months Ended		
	June 30, 2018	2017	Percent Change	June 30, 2018	2017	June 30, 2018	2017	Percent Change	June 30, 2018	2017	
	(in millions, except percentages)			(in millions, except percentages)			(in millions, except percentages)			(in millions, except percentages)	
Revenues less cost of revenues	\$ 136.4	\$ 126.7	7.7 %	55.9 %	54.3 %	\$ 303.5	\$ 255.6	18.7 %	56.4 %	60.0 %	
Operating expenses	58.3	65.5	(11.0) %	23.9 %	28.1 %	111.8	129.4	(13.6) %	20.8 %	30.4 %	

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ating															
ne	\$ 78.1	\$ 61.2	27.6	%	32.0	%	26.2	%	\$ 191.7	\$ 126.2	51.9	%	35.6	%	29.6
DA(1)	\$ 90.3	\$ 84.5	6.9	%	37.0	%	36.2	%	\$ 215.7	\$ 160.4	34.5	%	40.1	%	37.6
DA															
in(2)	66.2	%	66.7	%	*		*		71.1	%	62.8	%	*		*

\*Not meaningful

(1) See footnote (1) to the table under “Financial Summary” above for a reconciliation of net income to EBITDA, and management’s reasons for using such non-GAAP measures.

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

Revenues less cost of revenues increased \$9.7 million for the three months ended June 30, 2018 compared to the three months ended June 30, 2017, primarily driven by an 8.5% increase in index options revenue per contract. For the three months ended June 30, 2018, the Options segment’s operating income increased \$16.9 million compared to the three months ended June 30, 2017.

Revenues less cost of revenues increased \$47.9 million for the six months ended June 30, 2018 compared to the six months ended June 30, 2017, primarily driven by the two additional months of activity in 2018 from Bats, which contributed \$8.3 million in the six months ended June 30, 2018, and a 76.9% increase in index options ADV. For the six months ended June 30, 2018, the Options segment’s operating income increased \$65.5 million compared to the six months ended June 30, 2017.

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## U.S. Equities

The following summarizes revenues less cost of revenues, operating expenses, operating income, EBITDA, and EBITDA margin for our U.S. Equities segment:

	Three Months Ended			Percentage of Total Revenues Three Months Ended			Six Months Ended			Percentage of Total Revenues Six Months Ended		
	June 30, 2018	2017	Percent Change	June 30, 2018	2017		June 30, 2018	2017	Percent Change	June 30, 2018	2017	
Revenues less cost of revenues	\$ 77.6	\$ 74.4	4.3 %	22.6 %	22.5 %		\$ 157.3	\$ 99.9	57.5 %	21.4 %	22.1 %	
Operating expenses	40.1	41.1	(2.4) %	11.7 %	12.4 %		86.0	54.4	58.1 %	11.7 %	12.1 %	
Operating income	\$ 37.5	\$ 33.3	12.6 %	10.9 %	10.1 %		\$ 71.3	\$ 45.5	56.7 %	9.7 %	10.1 %	
EBITDA(1)	\$ 58.8	\$ 57.8	1.7 %	17.1 %	17.5 %		\$ 116.0	\$ 78.1	48.5 %	15.8 %	17.3 %	
EBITDA margin(2)	75.8 %	77.7 %	*	*	*		73.7 %	78.2 %	*	*	*	

\*Not meaningful

(1) See footnote (1) to the table under “Financial Summary” above for a reconciliation of net income to EBITDA, and management’s reasons for using such non-GAAP measures.

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

Revenues less cost of revenues increased \$3.2 million for the three months ended June 30, 2018 compared to the three months ended June 30, 2017, primarily driven by increased market data fees of \$2.7 million. For the three months ended June 30, 2018, the U.S. Equities segment’s operating income increased \$4.2 million compared to the three months ended June 30, 2017.

Revenues less cost of revenues increased \$57.4 million for the six months ended June 30, 2018 compared to the six months ended June 30, 2017, primarily driven by increased market data fees related to the two additional months included in 2018 from the Bats acquisition. For the six months ended June 30, 2018, the U.S. Equities segment’s operating income increased \$25.8 million compared to the six months ended June 30, 2017.

## Futures

The following summarizes revenues less costs of revenues, operating expenses, operating income, EBITDA, and EBITDA margin for our Futures segment:

	Percentage of Total Revenues	Percentage of Total Revenues
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	Three Months Ended June 30, 2018			Percent Change	Three Months Ended June 30, 2017			Six Months Ended June 30, 2018			Percent Change	Six Months Ended June 30, 2017			
	(in millions, except percentages)				(in millions, except percentages)			(in millions, except percentages)							
Revenues	\$ 31.4	\$ 36.2	(13.3)	%	96.3	%	96.5	%	\$ 73.7	\$ 65.0	13.4	%	96.3	%	96.4
Less cost of revenues															
Operating expenses	15.1	2.8	439.3	%	46.3	%	7.5	%	31.2	5.7	447.4	%	40.8	%	8.5
Operating income	\$ 16.3	\$ 33.4	(51.2)	%	50.0	%	89.1	%	\$ 42.5	\$ 59.3	(28.3)	%	55.6	%	88.0
EBITDA(1)	\$ 16.4	\$ 33.8	(51.5)	%	50.3	%	90.1	%	\$ 43.7	\$ 60.0	(27.2)	%	57.1	%	89.0
EBITDA margin(2)	52.2 %	93.4 %	*		*		*		59.3 %	92.3 %	*		*		*

\*Not meaningful

(1) See footnote (1) to the table under “Financial Summary” above for a reconciliation of net income to EBITDA, and management’s reasons for using such non-GAAP measures.

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

For the three months ended June 30, 2018 compared to the same period in 2017, the net revenue decreased \$4.8 million due to a 16.0% decline in ADV and operating income decreased \$17.1 million driven by the decline in ADV and an increase in allocated expenses to the Futures segment.

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For the six months ended June 30, 2018 compared to the same period in 2017, the net revenue increased \$8.7 million due to an increase of year-to-date ADV of 10.8%. Operating income decreased \$16.8 million, primarily driven by an increase in allocated expenses to the Futures segment.

## European Equities

The following summarizes revenues less cost of revenues, operating expenses, operating income, EBITDA, and EBITDA margin for our European Equities segment:

	Three Months Ended June 30, 2018				Three months ended June 30, 2017				Six Months Ended June 30, 2018				Six months ended June 30, 2017			
	(in millions, except percentages)		Percent Change		(in millions, except percentages)		Percent Change		(in millions, except percentages)		Percent Change		(in millions, except percentages)		Percent Change	
Revenues	\$ 23.4	\$ 18.5	26.5	%	71.1	%	67.0	%	\$ 48.0	\$ 24.6	95.1	%	71.3	%	66.7	%
Less cost of revenues																
Operating expenses	16.9	15.0	12.7	%	51.4	%	54.3	%	35.3	19.5	81.0	%	52.5	%	52.8	%
Operating income	\$ 6.5	\$ 3.5	85.7	%	19.8	%	12.7	%	\$ 12.7	\$ 5.1	149.0	%	18.9	%	13.8	%
EBITDA(1)	\$ 14.3	\$ 11.0	30.0	%	43.5	%	39.9	%	\$ 28.8	\$ 15.1	90.7	%	42.8	%	40.9	%
EBITDA margin(2)	61.1 %	59.5 %	*		*		*		60.0 %	61.4 %	*		*		*	

\*Not meaningful

(1) See footnote (1) to the table under “Financial Summary” above for a reconciliation of net income to EBITDA, and management’s reasons for using such non-GAAP measures.

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

Revenues less cost of revenues increased \$4.9 million for the three months ended June 30, 2018 compared to the three months ended June 30, 2017, primarily driven by a 10.2% increase in net capture over prior year. The effect of the change in exchange rate of British pounds to U.S. dollars also contributed \$2.0 million. For the three months ended June 30, 2018, the European Equities segment’s operating income increased \$3.0 million compared to the three months ended June 30, 2017.

Revenues less cost of revenues increased \$23.4 million for the six months ended June 30, 2018 compared to the six months ended June 30, 2017, primarily driven by an 13.3% increase in net capture over prior year. For the six months ended June 30, 2018, the European Equities segment’s operating income increased \$7.6 million compared to the six months ended June 30, 2017. Also contributing to the increase were the two additional months of activity from the Bats acquisition in 2018.

## Global FX

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The following summarizes revenues less cost of revenues, operating expenses, operating income, EBITDA, and EBITDA margin for our Global FX segment:

	Three Months Ended			Percentage of Total Revenues		Six Months Ended			Percentage of Total Revenues	
	June 30, 2018	2017	Percent Change	Ended June 30, 2018	2017	June 30, 2018	2017	Percent Change	Ended June 30, 2018	2017
	(in millions, except percentages)					(in millions, except percentages)				
Revenues	\$ 14.5	\$ 10.9	33.0 %	100.0 %	100.0 %	\$ 29.1	\$ 14.9	95.3 %	100.0 %	100.0 %
Cost of Revenues	16.2	15.0	8.0 %	111.7 %	137.6 %	33.8	20.2	67.3 %	116.2 %	135.0 %
Operating Expenses	\$ (1.7)	\$ (4.1)	(58.5) %	(11.7) %	(37.6) %	\$ (4.7)	\$ (5.3)	(11.3) %	(16.2) %	(35.6) %
Operating Income	\$ 6.9	\$ 5.0	38.0 %	47.6 %	45.9 %	\$ 13.3	\$ 6.8	95.6 %	45.7 %	45.6 %
EBITDA	47.6 %	45.9 %	*	*	*	45.7 %	45.6 %	*	*	*
EBITDA Margin										

\*Not meaningful

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(1) See footnote (1) to the table under “Financial Summary” above for a reconciliation of net income to EBITDA and adjusted EBITDA, and management’s reasons for using such non-GAAP measures.

(2) EBITDA margin represents EBITDA divided by revenues less cost of revenues.

Revenues less cost of revenues increased \$3.6 million for the three months ended June 30, 2018 compared to the three months ended June 30, 2017, primarily driven by a 37.6% increase in ADNV. For the three months ended June 30, 2018, the Global FX segment’s operating loss decreased \$2.4 million compared to the three months ended June 30, 2017.

Revenues less cost of revenues increased \$14.2 million for the six months ended June 30, 2018 compared to the six months ended June 30, 2017, primarily driven by a 40.8% increase in ADNV. For the six months ended June 30, 2018, the Global FX segment’s operating income decreased \$0.6 million compared to the six months ended June 30, 2017. Also contributing to the increase were the two additional months of activity from the Bats acquisition in 2018.

## Seasonality

In the securities and FX industries, quarterly revenue fluctuations are common and are due primarily to seasonal variations in trading volumes, as well as competition and technological and regulatory changes. Our business experiences seasonal fluctuations with the U.S. Equities, European Equities and Global FX segments, reflecting reduced trading activity generally during the third quarter of each year and during the last month of the year. As a result, our operating results for the third or fourth quarter of any year may not be indicative of the results we expect for the full year.

## Liquidity and Capital Resources

We expect our cash on hand at June 30, 2018 and other available resources, including cash generated from operations, to be sufficient to continue to meet our cash requirements for the foreseeable future. In the near term, we expect that our cash from operations and availability under our revolving credit facility will meet our cash needs to fund our operations, capital expenditures, interest payments on debt, debt repayments, any dividends, and opportunities for common stock repurchases under the previously announced program. We also plan to utilize excess cash on hand to pay down amounts outstanding under the Term Loan Agreement. See Note 11 “Debt” of the condensed consolidated financial statements for further information. Our long-term cash needs will depend on many factors including an introduction of new products, enhancements of current products, the geographic mix of our business and any potential acquisitions. We believe our cash from operations and the availability under our revolving credit facility will meet any long-term needs unless a significant acquisition is identified, in which case we expect that we would be able to borrow the necessary funds to complete such an acquisition.

Cash and cash equivalents include cash in banks and all non-restricted, highly liquid investments with original maturities of three months or less at the time of purchase. Cash and cash equivalents as of June 30, 2018 decreased \$6.9 million from December 31, 2017 primarily driven by our results from operations. See “—Cash Flow” below for further discussion.

Our cash and cash equivalents held outside of the United States in various foreign subsidiaries totaled \$48.5 million as of June 30, 2018. The remaining balance was held in the United States and totaled \$91.5 million as of June 30, 2018. Our cash and cash equivalents held outside of the United States as of December 31, 2017 totaled \$44.9 million, and are held in various foreign subsidiaries. The majority of cash held outside the United States is available for repatriation, but under current law, could subject us to additional United States income taxes, less applicable foreign tax credits.

Our financial investments include investments with original or acquired maturities longer than three months but that mature in less than one year from the balance sheet date and are recorded at fair value. As of June 30, 2018 and December 31, 2017, financial investments primarily consisted of U.S. Treasury securities.

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## Cash Flow

The following table summarizes our cash flow data for the six months ended June 30, 2018 and 2017, respectively:

	Six Months Ended	
	June 30, 2018	2017
	(in millions)	
Net cash provided by operating activities	\$ 349.3	\$ 172.1
Net cash used in investing activities	(97.4)	(1,467.4)
Net cash (used in) provided by financing activities	(249.8)	1,346.5
Effect of foreign currency exchange rate changes on cash and cash equivalents	(5.6)	0.1
(Decrease) increase in cash and cash equivalents	\$ (3.5)	\$ 51.3

## Net Cash Flows Provided by Operating Activities

During the six months ended June 30, 2018, net cash provided by operating activities was \$148.2 million greater than net income. The variance is primarily attributed to the adjustment for depreciation expense of \$104.6 million and the change in the Section 31 fee payable of \$84.3 million for the six months ended June 30, 2018.

## Net Cash Flows Used in Investing Activities

Net cash flows used in investing activities for the six months ended June 30, 2018 and 2017 were \$97.4 million and \$1.5 billion, respectively. The variance is primarily attributed to our acquisition of Bats on February 28, 2017.

## Net Cash Flows (Used in) Provided by Financing Activities

Net cash flows (used in) provided by financing activities for the six months ended June 30, 2018 and 2017 were \$249.8 million and \$1.3 billion, respectively. The variance is primarily attributed to our acquisition of Bats on February 28, 2017.

On March 13, 2015, Bats completed the acquisition of Hotspot FX Holdings LLC (“Hotspot”). In the second quarter of 2018, we paid the Hotspot seller \$56.6 million relating to a tax sharing arrangement in connection with such acquisition. The contingent consideration liability represented a tax sharing arrangement with the seller for payment of 70% of the tax benefit from the amortization resulting from the Hotspot transaction for the first three years after the Hotspot acquisition date and 50% of the tax benefit for the remaining twelve years.

## Financial Assets

The following summarizes our financial assets as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018	December 31, 2017
Cash and cash equivalents	\$ 140.0	\$ 143.5
Financial investments	131.8	47.3
Less cash collected for Section 31 Fees	(155.8)	(70.5)
Adjusted Cash (1)	\$ 116.0	\$ 120.3

(1) Adjusted cash is a non-GAAP measure and represents cash and cash equivalents plus financial investments minus cash collected for Section 31 fees. We have presented adjusted cash because we consider it an important supplemental measure of our liquidity and believe that it is frequently used by analysts, investors and other interested parties in the evaluation of companies.

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## Debt

The following summarizes our debt obligations as of June 30, 2018 and December 31, 2017 (in millions):

	June 30, 2018	December 31, 2017
Term Loan Agreement	\$ 275.0	\$ —
Prior Term Loan Agreement	—	300.0
3.650% Senior Notes	650.0	650.0
1.950% Senior Notes	300.0	300.0
Revolving Credit Agreement	—	—
Less unamortized discount and debt issuance costs	(10.9)	(12.1)
Total debt	\$ 1,214.1	\$ 1,237.9

As of June 30, 2018 and December 31, 2017, we were in compliance with the covenants of our debt agreements.

In addition to the debt outstanding, as of June 30, 2018, we had an additional \$150.0 million available through our revolving credit facility. Together with adjusted cash, we had \$266.0 million available to fund our operations, capital expenditures, potential acquisitions, debt repayments and any dividends as of June 30, 2018.

As of June 30, 2018, the 1.950% Senior Notes are classified as a current portion of long-term debt, as the maturity date is less than one year, due on June 28, 2019.

## Dividends

The Company's expectation is to continue to pay dividends. The decision to pay a dividend, however, remains within the discretion of the Company's board of directors and may be affected by various factors, including our earnings, financial condition, capital requirements, level of indebtedness and other considerations our board of directors deems relevant. Future debt obligations and statutory provisions, among other things, may limit, or in some cases prohibit, our ability to pay dividends.

## Share Repurchase Program

In 2011, the board of directors approved an initial authorization for the Company to repurchase shares of its outstanding common stock of \$100 million and approved additional authorizations of \$100 million in each of 2012, 2013, 2014, 2015 and 2016 and \$150 million in February 2018 for a total authorization of \$750 million. The program permits the Company to purchase shares through a variety of methods, including in the open market or through privately negotiated transactions, in accordance with applicable securities laws. It does not obligate the Company to make any repurchases at any specific time or situation.

Under the program, for the three months ended June 30, 2018, the Company repurchased 468,913 shares of common stock at an average cost per share of \$102.92, totaling \$48.3 million. For the six months ended June 30, 2018, the



Company repurchased 856,055 shares of common stock at an average cost per share of \$107.26, totally \$91.8 million.

Since inception of the program through June 30, 2018, the Company has repurchased 11,803,456 shares of common stock at an average cost per share of \$50.40, totaling \$594.9 million.

As of June 30, 2018, the Company had \$155.1 million of availability remaining under its existing share repurchase authorizations.

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## Commercial Commitments and Contractual Obligations

As of June 30, 2018, our commercial commitments and contractual obligations included real property leases, operating leases, data and telecommunications agreements, equipment leases, our long-term debt outstanding, contingent consideration and other obligations. See Note 21, Commitments and Contingencies, to the condensed consolidated financial statements for a discussion of commitments and contingencies and Note 11, Debt, for a discussion of the outstanding long-term debt.

## Off Balance Sheet Arrangements

As of June 30, 2018 we did not have any off-balance sheet arrangements.

## Item 3. Quantitative and Qualitative Disclosures about Market Risk

As a result of our operating activities, we are exposed to market risks such as foreign currency exchange rate risk, equity risk, credit risk, and interest rate risk. We have implemented policies and procedures to measure, manage and monitor and report risk exposures, which are reviewed regularly by management and our board of directors.

## Foreign Currency Exchange Rate Risk

As a result of the acquisition of Bats, we expanded our operations in Europe and Asia and are subject to increased currency translation risk as revenues and expenses are denominated in foreign currencies, primarily the British pound, Singapore dollar, Hong Kong dollar, and the Euro. We also have de minimis exposure to other foreign currencies, including the Swiss Franc, Norwegian Kroner, Swedish Krona and Danish Kroner.

For the three and six months ended June 30, 2018, our exposure to foreign-denominated revenues and expenses is presented by primary foreign currency in the following table:

	Three Months Ended June 30, 2018				Six Months Ended June 30, 2018			
	Euro (1) (in millions, except percentages)		British Pound (1)		Euro (1) (in millions, except percentages)		British Pound (1)	
Foreign denominated % of:								
Revenues	0.9	%	4.0	%	1.5	%	2.8	%
Cost of revenues	0.4	%	2.0	%	1.0	%	1.2	%
Operating expenses	0.1	%	2.3	%	0.3	%	1.1	%
Impact of 10% adverse currency fluctuation on:								
Revenues	0.7		3.0		2.4		4.2	
Cost of revenues	0.2		0.9		0.9		1.0	
Operating expenses	—		0.4		0.1		0.4	

(1) An average foreign exchange rate to the U.S. dollar for the period was used.

## Equity Risk

Our investment in European operations is exposed to volatility in currency exchange rates through translation of our net assets or equity to U.S. dollars. The assets and liabilities of our European business are denominated in British pounds. Fluctuations in currency exchange rates may create volatility in our reported results as we are required to translate foreign currency reported statements of financial condition and income into U.S. dollars for consolidated reporting. The translation of these non-U.S. dollar statements of financial condition into U.S. dollars for consolidated reporting results in a cumulative translation adjustment, which is recorded in accumulated other comprehensive loss

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(income) within stockholders' equity on our consolidated statements of financial condition. Our primary exposure to this equity risk as of June 30, 2018 is presented by foreign currency in the following table:

	British Pound (1) (in millions)
Net equity investment in Cboe Europe	\$ 715.4
Impact on consolidated equity of a 10% adverse currency fluctuation	\$ 71.5

(1) Converted to U.S. dollars using the foreign exchange rate of British pounds into U.S. dollars as of June 30, 2018.  
Credit Risk

We are exposed to credit risk from third parties, including customers, counterparties and clearing agents. These parties may default on their obligations due to bankruptcy, lack of liquidity, operational failure or other reasons. We limit our exposure to credit risk by selecting the counterparties with which we make investments and execute agreements.

We do not have counterparty credit risk with respect to trades matched on our exchanges in the U.S and Europe. With respect to listed cash equities, we deliver matched trades of our customers to the National Security Clearing Corporation, NSCC, without taking on counterparty risk for those trades. NSCC acts as a central counterparty on all transactions occurring on BZX, BYX, EDGX and EDGA and, as such, guarantees clearance and settlement of all of our matched equity trades. Similarly, with respect to U.S. listed equity options and futures, we deliver matched trades of our customers to the OCC, which acts as a central counterparty on all transactions occurring on Cboe Options, C2, BZX, EDGX and CFE and, as such, guarantees clearance and settlement of all of our matched options and futures trades.

With respect to orders Cboe Trading routes to other markets for execution on behalf of our customers, Cboe Trading is exposed to some counterparty credit risk in the case of failure to perform on the part of our clearing firms, Morgan Stanley & Co. LLC (Morgan Stanley) or Wedbush Securities, Inc. (Wedbush Securities). Morgan Stanley and Wedbush Securities guarantee trades until one day after the trade date, after which time NSCC provides a guarantee. Thus, Cboe Trading is potentially exposed to credit risk to the counterparty to a trade routed to another market center between the trade date and one day after the trade date in the event that Morgan Stanley or Wedbush Securities fails. We believe that any potential requirement for us to make payments under these guarantees is remote and accordingly, have not recorded any liability in the consolidated financial statements for these guarantees.

Historically, we have not incurred any liability due to a customer's failure to satisfy its contractual obligations as counterparty to a system trade. Credit difficulties or insolvency, or the perceived possibility of credit difficulties or insolvency, of one or more larger or more visible market participants could also result in market-wide credit difficulties or other market disruptions.

We do not have counterparty credit risk with respect to institutional spot FX trades occurring on our platform because Cboe FX is not a counterparty to any FX transactions. All transactions occurring on our platform occur bilaterally between two banks or prime brokers as counterparties to the trade. While Cboe FX does not have direct counterparty risk, Cboe FX may suffer a decrease in transaction volume if a bank or prime broker experiences an event that causes other prime brokers to decrease or revoke the credit available to the prime broker experiencing the event. Therefore, Cboe FX may have risk that is related to the credit of the banks and prime brokers that trade FX on the Cboe FX platform.

We also have credit risk related to transaction fees that are billed in arrears to customers on a monthly basis. Our potential exposure to credit losses on these transactions is represented by the receivable balances in our balance sheet. Our customers are financial institutions whose ability to satisfy their contractual obligations may be impacted by volatile securities markets.

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On a regular basis, we review and evaluate changes in the status of our counterparties' creditworthiness. Credit losses such as those described above could adversely affect our consolidated financial position and results of operations. Any such effects to date have been minimal.

### Interest Rate Risk

We have exposure to market risk for changes in interest rates relating to our cash and cash equivalents, short-term investments, short-term and long-term restricted cash and investments, and indebtedness. As of June 30, 2018 and 2017, our cash and cash equivalents and financial investments were \$271.8 million and \$190.8 million, respectively, of which \$66.8 million is held outside of the United States in various foreign subsidiaries in 2018. The remaining cash and cash equivalents and financial instruments are denominated in U.S. dollars. We do not use our investment portfolio for trading or other speculative purposes. Due to the nature of these investments, we have not been exposed to, nor do we anticipate being exposed to, material risks due to changes in interest rates, assuming no change in the amount or composition of our cash and cash equivalents and financial instruments.

As of June 30, 2018, we had \$1.225 billion in outstanding debt, of which \$950 million relates to our Notes, which bear interest at fixed interest rates. Changes in interest rates will have no impact on the interest we pay on fixed-rate obligations. The remaining amount outstanding of \$275.0 million relates to the Term Loan Agreement, which bears interest at fluctuating rates and, therefore, subjects us to interest rate risk. A hypothetical 100 basis point increase in long-term interest rates relating to the amounts outstanding under the Term Loan Agreement as of June 30, 2018 would decrease annual pre-tax earnings by \$2.75 million, assuming no change in the composition of our outstanding indebtedness. We are also exposed to changes in interest rates as a result of borrowings under our Revolving Credit Agreement, as this facility bears interest at fluctuating rates. As of June 30, 2018, there were no outstanding borrowings under our Revolving Credit Agreement. See Note 11, Debt, to the consolidated financial statements for a discussion of debt agreements.

### Item 4. Controls and Procedures

a) Disclosure controls and procedures. The Company's management, with the participation of its Chief Executive Officer and Chief Financial Officer, has evaluated the effectiveness of the Company's disclosure controls and procedures (as defined in Rule 13a-15(e) and Rule 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) as of the end of the period covered by this report. Based upon that evaluation, the Company's Chief Executive Officer and Chief Financial Officer have concluded that, as of the end of such period, the Company's disclosure controls and procedures are effective.

b) Internal controls over financial reporting. As of March 31, 2018 we have integrated the acquired Bats Global Markets, Inc. operations into our overall internal controls over financial reporting.

During the quarter ended June 30, 2018, we implemented various process and information enhancements, principally related to the implementation of new general ledger, payroll and accounts payable software. This software implementation is part of an ongoing process and we plan to migrate other financial processing systems in 2018. These process and information enhancements have resulted in modifications to the internal controls over general ledger and accounts payable systems. We have taken the necessary steps to monitor and maintain appropriate internal control over financial reporting during this period of system change and will continue that through the migration of remaining financial processing systems.

Except as described above, no changes occurred in the Company's internal control over financial reporting during second quarter 2018 that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.



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## PART II—OTHER INFORMATION

## Item 1. Legal Proceedings.

Cboe Global Markets, Inc. incorporates herein by reference the discussion set forth in Note 19 (“Income Taxes”) and Note 21 (“Commitments, Contingencies, and Guarantees– Legal Proceedings”) of the consolidated financial statements included herein.

## Item 1A. Risk Factors.

There have been no material updates during the period covered by this Form 10 Q to the Risk Factors as set forth in Item 1A. of our Annual Report on Form 10 K for the year ended December 31, 2017. These risks and uncertainties, however, are not the only risks and uncertainties that we face. Additional risks and uncertainties not currently known to us or that we currently deem to be immaterial may also significantly impact us. Any of these risks and uncertainties may materially and adversely affect our business, financial condition or results of operations, liquidity and cash flows.

## Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

## Share repurchase program

In 2011, the board of directors approved an initial authorization for the Company to repurchase shares of its outstanding common stock of \$100 million and approved additional authorizations of \$100 million in each of 2012, 2013, 2014, 2015 and 2016 and \$150 million in February 2018 for a total authorization of \$750 million. The program permits the Company to purchase shares through a variety of methods, including in the open market or through privately negotiated transactions, in accordance with applicable securities laws. It does not obligate the Company to make any repurchases at any specific time or situation.

The table below shows the purchases of equity securities by the Company in the three months ended June 30, 2018, reflecting the purchase of common stock under the Company's share repurchase program:

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares that May Yet Be Purchased Under the Plans or Programs
April 1 to April 30, 2018	63,620	\$ 111.53	63,620	\$ 196,323,882
May 1 to May 31, 2018	159,293	101.53	159,293	180,150,942
June 1 to June 30, 2018	246,000	101.59	246,000	155,160,630
Total	468,913	\$ 102.92	468,913	

Purchase of common stock from employees



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The table below reflects the acquisition of common stock by the Company in the three months ended June 30, 2018 that were not part of the publicly announced share repurchase authorization. These shares consisted of shares retained to cover payroll withholding taxes in connection with the vesting of restricted stock unit awards and performance share awards, and shares used by employees to cover the price of certain stock options that were exercised.

Period	Total number of shares purchased	Average price paid per share
April 1 to April 30, 2018	—	\$ —
May 1 to May 31, 2018	654	106.60
June 1 to June 30, 2018	1,803	101.00
Total	2,456	102.86

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Use of Proceeds

None.

Item 3. Defaults upon Senior Securities.

None.

Item 4. Mine Safety Disclosures.

Not applicable.

Item 5. Other Information.

None.

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Item 6. Exhibits.

Exhibit No.	Description
10.1	<u>Cboe Global Markets, Inc. Employee Stock Purchase Plan, incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K (File No. 001-34774) filed on May 18, 2018.*</u>
10.2	<u>Form of Restricted Stock Unit Award Agreement (3 Year Cliff Vest), incorporated by reference to Exhibit 10.1 to the Company's Current Report on Form 8-K (File No. 001-34774) filed on May 18, 2018.*</u>
12.1	<u>Ratio of Earnings to Fixed Charges (Filed herewith).</u>
31.1	<u>Certification of Chief Executive Officer pursuant to Rule 13a-14 (Filed herewith).</u>
31.2	<u>Certification of Chief Financial Officer pursuant to Rule 13a-14 (Filed herewith).</u>
32.1	<u>Certificate of Chief Executive Officer pursuant to Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (Filed herewith).</u>
32.2	<u>Certificate of Chief Financial Officer pursuant to Rule 13a-14(b) and Section 1350 of Chapter 63 of Title 18 of the United States Code (Filed herewith).</u>
101.INS	XBRL Instance Document (Filed herewith).
101.SCH	XBRL Taxonomy Extension Schema Document (Filed herewith).
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document (Filed herewith).
101.DEF	XBRL Taxonomy Extension Definition Linkbase (Filed herewith).
101.LAB	XBRL Taxonomy Extension Label Linkbase Document (Filed herewith).
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document (Filed herewith).

\* Indicates Management Compensatory Plan, Contract, or Arrangement.

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

CBOE GLOBAL MARKETS, INC.

Registrant

By: /s/ Edward T. Tilly  
Edward T. Tilly  
Chief Executive Officer  
(Principal Executive Officer)

Date: August  
3, 2018

By: /s/ Brian N. Schell  
Brian N. Schell  
Executive Vice President and Chief Financial Officer  
(Principal Financial Officer)

Date: August  
3, 2018