

INTERNATIONAL BUSINESS MACHINES CORP

Form 10-Q

April 25, 2017

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**UNITED STATES**  
**SECURITIES AND EXCHANGE COMMISSION**

WASHINGTON, DC 20549

**FORM 10 - Q**

**QUARTERLY REPORT PURSUANT TO SECTION 13 or 15(d)**

**OF THE SECURITIES EXCHANGE ACT OF 1934**

**FOR THE QUARTER ENDED MARCH 31, 2017**

**1-2360**

(Commission file number)

**INTERNATIONAL BUSINESS MACHINES CORPORATION**

(Exact name of registrant as specified in its charter)

**New York**

(State of incorporation)

**13-0871985**

(IRS employer identification number)

**Armonk, New York**

(Address of principal executive offices)

**10504**

(Zip Code)

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914-499-1900

(Registrant's telephone number)

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, 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

The registrant had 939,496,884 shares of common stock outstanding at March 31, 2017.

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Table of Contents**Part I - Financial Information****Item 1. Consolidated Financial Statements:**

**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
**AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENT OF EARNINGS**  
**(UNAUDITED)**

(Dollars in millions except per share amounts)	Three Months Ended March 31,	
	2017	2016
<b>Revenue:</b>		
Services	\$ 12,342	\$ 12,391
Sales	5,404	5,879
Financing	409	414
<b>Total revenue</b>	<b>18,155</b>	<b>18,684</b>
<b>Cost:</b>		
Services	8,553	8,382
Sales	1,551	1,378
Financing	279	238
<b>Total cost</b>	<b>10,383</b>	<b>9,999</b>
<b>Gross profit</b>	<b>7,772</b>	<b>8,686</b>
<b>Expense and other (income):</b>		
Selling, general and administrative	5,152	6,012
Research, development and engineering	1,533	1,458
Intellectual property and custom development income	(445)	(217)
Other (income) and expense	(28)	253
Interest expense	135	147
<b>Total expense and other (income)</b>	<b>6,348</b>	<b>7,652</b>
<b>Income from continuing operations before income taxes</b>	<b>1,424</b>	<b>1,034</b>
Provision for/(benefit from) income taxes	(329)	(983)
<b>Income from continuing operations</b>	<b>\$ 1,753</b>	<b>\$ 2,016</b>
Loss from discontinued operations, net of tax	(3)	(3)
<b>Net income</b>	<b>\$ 1,750</b>	<b>\$ 2,014</b>
<b>Earnings/(loss) per share of common stock:</b>		
<b>Assuming dilution:</b>		
Continuing operations	\$ 1.85	\$ 2.09
Discontinued operations	0.00	0.00
<b>Total</b>	<b>\$ 1.85</b>	<b>\$ 2.09</b>
<b>Basic:</b>		
Continuing operations	\$ 1.86	\$ 2.09
Discontinued operations	0.00	0.00
<b>Total</b>	<b>\$ 1.86</b>	<b>\$ 2.09</b>

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<b>Weighted-average number of common shares outstanding: (millions)</b>			
Assuming dilution		947.8	964.4
Basic		942.4	961.7
<b>Cash dividend per common share</b>	\$	1.40	\$ 1.30

(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)

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**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
**AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME**  
**(UNAUDITED)**

(Dollars in millions)	Three Months Ended March 31,	
	2017	2016
<b>Net income</b>	\$ 1,750	\$ 2,014
<b>Other comprehensive income/(loss), before tax:</b>		
<b>Foreign currency translation adjustments</b>	161	239
<b>Net changes related to available-for-sale securities:</b>		
Unrealized gains/(losses) arising during the period	(1)	(36)
Reclassification of (gains)/losses to net income	1	37
<b>Total net changes related to available-for-sale securities</b>	0	1
<b>Unrealized gains/(losses) on cash flow hedges:</b>		
Unrealized gains/(losses) arising during the period	(33)	(265)
Reclassification of (gains)/losses to net income	(98)	(91)
<b>Total unrealized gains/(losses) on cash flow hedges</b>	(130)	(356)
<b>Retirement-related benefit plans:</b>		
Prior service costs/(credits)	0	
Net (losses)/gains arising during the period	61	(147)
Curtailments and settlements	(1)	5
Amortization of prior service (credits)/costs	(21)	(25)
Amortization of net (gains)/losses	710	690
<b>Total retirement-related benefit plans</b>	748	522
<b>Other comprehensive income/(loss), before tax</b>	779	406
<b>Income tax (expense)/benefit related to items of other comprehensive income</b>	(92)	202
<b>Other comprehensive income/(loss)</b>	688	608
<b>Total comprehensive income/(loss)</b>	\$ 2,438	\$ 2,622

(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)

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**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
**AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENT OF FINANCIAL POSITION**  
**(UNAUDITED)**

**ASSETS**

(Dollars in millions)	2017	2016
<b>Assets:</b>		
Current assets:		
Cash and cash equivalents	\$ 10,096	\$ 7,826
Marketable securities	599	701
Notes and accounts receivable - trade (net of allowances of \$302 in 2017 and \$290 in 2016)	8,377	9,182
Short-term financing receivables (net of allowances of \$351 in 2017 and \$337 in 2016)	16,362	19,006
Other accounts receivable (net of allowances of \$38 in 2017 and \$48 in 2016)	1,130	1,057
Inventories, at lower of average cost or market:		
Finished goods	423	358
Work in process and raw materials	1,186	1,195
Total inventories	1,609	1,553
Prepaid expenses and other current assets	4,715	4,564
Total current assets	42,889	43,888
Property, plant and equipment	30,681	30,133
Less: Accumulated depreciation	19,816	19,303
Property, plant and equipment net	10,865	10,830
Long-term financing receivables (net of allowances of \$99 in 2017 and \$101 in 2016)	8,502	9,021
Prepaid pension assets	3,491	3,034
Deferred taxes	6,457	5,224
Goodwill	36,307	36,199
Intangible assets net	4,436	4,688
Investments and sundry assets	4,549	4,585
<b>Total assets</b>	<b>\$ 117,495</b>	<b>\$ 117,470</b>

(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)

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**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
**AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENT OF FINANCIAL POSITION (CONTINUED)**  
**(UNAUDITED)**

**LIABILITIES AND EQUITY**

(Dollars in millions)	At March 31, 2017	At December 31, 2016
<b>Liabilities:</b>		
Current liabilities:		
Taxes	\$ 2,747	\$ 3,235
Short-term debt	8,340	7,513
Accounts payable	5,324	6,209
Compensation and benefits	3,197	3,577
Deferred income	12,351	11,035
Other accrued expenses and liabilities	4,522	4,705
<b>Total current liabilities</b>	<b>36,481</b>	<b>36,275</b>
Long-term debt	34,441	34,655
Retirement and nonpension postretirement benefit obligations	16,967	17,070
Deferred income	3,557	3,600
Other liabilities	7,601	7,477
<b>Total liabilities</b>	<b>99,047</b>	<b>99,078</b>
<b>Equity:</b>		
IBM stockholders' equity:		
Common stock, par value \$0.20 per share, and additional paid-in capital	54,104	53,935
Shares authorized: 4,687,500,000		
Shares issued: 2017 - 2,226,175,975		
2016 - 2,225,116,815		
Retained earnings	153,292	152,759
Treasury stock - at cost	(160,359)	(159,050)
Shares: 2017 - 1,286,679,091		
2016 - 1,279,249,412		
Accumulated other comprehensive income/(loss)	(28,710)	(29,398)
<b>Total IBM stockholders' equity</b>	<b>18,327</b>	<b>18,246</b>
Noncontrolling interests	121	146
<b>Total equity</b>	<b>18,448</b>	<b>18,392</b>
<b>Total liabilities and equity</b>	<b>\$ 117,495</b>	<b>\$ 117,470</b>

(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)





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**INTERNATIONAL BUSINESS MACHINES CORPORATION**  
**AND SUBSIDIARY COMPANIES**  
**CONSOLIDATED STATEMENT OF CASH FLOWS**  
**(UNAUDITED)**

(Dollars in millions)	Three Months Ended March 31,	
	2017	2016
<b>Cash flows from operating activities:</b>		
Net income	\$ 1,750	\$ 2,014
Adjustments to reconcile net income to cash provided by operating activities		
Depreciation	709	677
Amortization of intangibles	390	347
Stock-based compensation	129	133
Net (gain)/loss on asset sales and other	13	172
Changes in operating assets and liabilities, net of acquisitions/divestitures	964	2,187* **
<b>Net cash provided by operating activities</b>	<b>3,955</b>	<b>5,530* **</b>
<b>Cash flows from investing activities:</b>		
Payments for property, plant and equipment	(740)	(956)
Proceeds from disposition of property, plant and equipment	58	129
Investment in software	(137)	(144)
Acquisition of businesses, net of cash acquired	(109)	(2,590)
Divestitures of businesses, net of cash transferred	(1)	47
Non-operating finance receivables net	1,570	1,500*
Purchases of marketable securities and other investments	(1,273)	(1,041)
Proceeds from disposition of marketable securities and other investments	981	1,169
<b>Net cash (used in)/provided by investing activities</b>	<b>350</b>	<b>(1,886)*</b>
<b>Cash flows from financing activities:</b>		
Proceeds from new debt	2,887	8,085
Payments to settle debt	(1,531)	(2,211)
Short-term borrowings/(repayments) less than 90 days net	(880)	(910)
Common stock repurchases	(1,293)	(939)
Common stock repurchases for tax withholdings	(50)	(27)**
Common stock transactions other	54	59
Cash dividends paid	(1,321)	(1,250)
<b>Net cash (used in)/provided by financing activities</b>	<b>(2,134)</b>	<b>2,806**</b>
Effect of exchange rate changes on cash and cash equivalents	100	217
Net change in cash and cash equivalents	2,270	6,668
Cash and cash equivalents at January 1	7,826	7,686
<b>Cash and cash equivalents at March 31</b>	<b>\$ 10,096</b>	<b>\$ 14,354</b>

\* Revised classification of certain financing receivables.

\*\* Reclassified to reflect adoption of the FASB guidance on share-based compensation.

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(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)



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\* Reflects the adoption of the FASB guidance on intra-entity transfers of assets.

(Amounts may not add due to rounding.)

(The accompanying notes are an integral part of the financial statements.)

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**Notes to Consolidated Financial Statements:**

**1. Basis of Presentation:** The accompanying Consolidated Financial Statements and footnotes of the International Business Machines Corporation (IBM or the company) have been prepared in accordance with accounting principles generally accepted in the United States of America (GAAP). The financial statements and footnotes are unaudited. In the opinion of the company's management, these statements include all adjustments, which are only of a normal recurring nature, necessary to present a fair statement of the company's results of operations, financial position and cash flows.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amount of assets, liabilities, revenue, costs, expenses and other comprehensive income/(loss) that are reported in the Consolidated Financial Statements and accompanying disclosures. These estimates are based on management's best knowledge of current events, historical experience, actions that the company may undertake in the future and on various other assumptions that are believed to be reasonable under the circumstances. As a result, actual results may be different from these estimates. Refer to the company's 2016 Annual Report on pages 71 to 74, for a discussion of the company's critical accounting estimates.

The company revised the classification of certain financing receivables for the three months ended March 31, 2016, decreasing net cash provided by operating activities and net cash used in investing activities in the amount of \$142 million, which the company concluded to be immaterial to the period presented. The twelve-month revision for the period ended December 31, 2016 was provided in the company's 2016 Annual Report on page 26. There was no impact to total GAAP cash flows or free cash flow.

For the three months ended March 31, 2017, the company's benefit from income taxes was \$329 million, and its effective tax rate was (23.1) percent. This was primarily driven by a discrete tax benefit of \$582 million from a first-quarter 2017 transaction accounted for under the new Financial Accounting Standards Board (FASB) guidance related to intra-entity transfers of assets. This benefit was partially offset by a discrete tax charge related to foreign audit activity of \$99 million. In the first quarter of 2016, the company reported a benefit from income taxes of \$983 million, and its effective tax rate was (95.1) percent, primarily driven by the resolution of a long-standing Japan tax matter in February 2016. Refer to note 2, Accounting Changes, and the Taxes section of the Management Discussion for additional information.

Noncontrolling interest amounts of \$3.6 million and \$1.3 million, net of tax, for the three months ended March 31, 2017 and 2016, respectively, are included as a reduction within other (income) and expense in the Consolidated Statement of Earnings.

Interim results are not necessarily indicative of financial results for a full year. The information included in this Form 10-Q should be read in conjunction with the company's 2016 Annual Report.

Within the financial statements and tables presented, certain columns and rows may not add due to the use of rounded numbers for disclosure purposes. Percentages presented are calculated from the underlying whole-dollar amounts. Certain prior year amounts have been reclassified to conform to the current year presentation. This is annotated where applicable.

**2. Accounting Changes:**

**New Standards to be Implemented**

In March 2017, the FASB issued guidance that impacts the presentation of net periodic pension and postretirement benefit costs. Under the guidance, the service cost component of net benefit cost will continue to be presented in the same line items as other employee compensation costs, unless eligible for capitalization in the Consolidated Statement of Financial Position. The other components of net benefit costs will be presented separately from service cost as non-operating costs in the Consolidated Statement of Earnings or Notes to the Consolidated Financial Statements. The guidance is effective January 1, 2018 with early adoption permitted. The company will adopt the guidance as of the effective date. The guidance is primarily a change in financial statement presentation and is not expected to have a material impact in the consolidated financial results.

In June 2016, the FASB issued guidance for credit impairment based on an expected loss model rather than an incurred loss model. The guidance requires the consideration of all available relevant information when estimating expected credit losses, including past events, current conditions and forecasts and their implications for expected credit losses. The guidance is effective January 1, 2020 with a one year early adoption permitted. The company is evaluating the impact of the new guidance.

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**Notes to Consolidated Financial Statements (continued)**

In February 2016, the FASB issued guidance which changes the accounting for leases. The guidance requires lessees to recognize right-of-use assets and lease liabilities for most leases in the Consolidated Statement of Financial Position. The guidance makes some changes to lessor accounting, including the elimination of the use of third-party residual value guarantee insurance in the capital lease test, and overall aligns with the new revenue recognition guidance. The guidance also requires qualitative and quantitative disclosures to assess the amount, timing and uncertainty of cash flows arising from leases. The guidance is effective January 1, 2019 and early adoption is permitted. The company will adopt the guidance as of the effective date. A cross-functional implementation team has been established which is evaluating the lease portfolio, system, process and policy change requirements. The company is currently evaluating the impact of the new guidance on its consolidated financial results and expects it will have a material impact on the Consolidated Statement of Financial Position. The company's operating lease commitments were \$6.9 billion at December 31, 2016. In 2016, the use of third-party residual value guarantee insurance resulted in the company recognizing \$220 million of sales-type lease revenue that would otherwise have been recognized over the lease period as operating lease revenue.

In January 2016, the FASB issued guidance which addresses aspects of recognition, measurement, presentation and disclosure of financial instruments. Certain equity investments will be measured at fair value with changes recognized in net income. The amendment also simplifies the impairment test of equity investments that lack readily determinable fair value. The guidance is effective January 1, 2018 and early adoption is not permitted except for limited provisions. The guidance is not expected to have a material impact in the consolidated financial results.

The FASB issued guidance on the recognition of revenue from contracts with customers in May 2014 with amendments in 2015 and 2016. Revenue recognition will depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The guidance also requires disclosures regarding the nature, amount, timing and uncertainty of revenue and cash flows arising from contracts with customers. The guidance permits two methods of adoption: retrospectively to each prior reporting period presented, or retrospectively with the cumulative effect of initially applying the guidance recognized at the date of initial application (the cumulative catch-up transition method). The guidance was initially effective January 1, 2017 and early adoption was not permitted. The amended guidance provides for a one-year deferral of the effective date to January 1, 2018, with an option of applying the standard on the original effective date. The company will adopt the guidance on January 1, 2018 and apply the cumulative catch-up transition method.

Given the scope of work required to implement the recognition and disclosure requirements under the new standard, the company began its assessment process in 2014 and has since made significant progress, including identification of changes to policy, processes, systems and controls. This also includes the assessment of data availability and presentation necessary to meet the additional disclosure requirements of the guidance in the Notes to the Consolidated Financial Statements.

The company expects revenue recognition for its broad portfolio of hardware, software and services offerings to remain largely unchanged. However, the guidance is expected to change the timing of revenue recognition in certain areas, including accounting for certain software licenses. These impacts are not expected to be material. The company expects to continue to recognize revenue for term license (recurring license charge) software arrangements on a monthly basis over the period that the client is entitled to use the license due to the contractual terms in these arrangements.



Since the company currently expenses sales commissions as incurred, the requirement in the new standard to capitalize certain in-scope sales commissions is being evaluated to determine its potential impact in the consolidated financial statements in the year of adoption. There will be no impact to cash flows.

The company continues to assess all potential impacts of the guidance and given normal ongoing business dynamics, preliminary conclusions are subject to change.

### **Standards Implemented**

In January 2017, the FASB issued guidance which clarifies the definition of a business. The guidance provides a more robust framework to use in determining when a set of assets and activities acquired or sold is a business. The guidance is effective January 1, 2018 and early adoption is permitted. The company adopted the guidance effective January 1, 2017, and it did not have a material impact in the consolidated financial results.

In October 2016, the FASB issued guidance which requires an entity to recognize the income tax consequences of intra-entity transfers of assets, other than inventory, at the time of transfer. Assets within the scope of the guidance include intellectual property and property, plant and equipment. The guidance is effective January 1, 2018 and early adoption is

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**Notes to Consolidated Financial Statements (continued)**

permitted. The company adopted the guidance on January 1, 2017 using the required modified retrospective method. At adoption, \$95 million and \$47 million were reclassified from investments and sundry assets and prepaid expenses and other current assets, respectively into retained earnings. Additionally, net deferred taxes of \$244 million were established in deferred taxes in the Consolidated Statement of Financial Position, resulting in a cumulative-effect net credit to retained earnings of \$102 million. In January 2017, the company had one transaction that generated a \$582 million benefit to income tax expense, income from continuing operations and net income and a benefit to basic and diluted earnings per share of \$0.62 and \$0.61 per share, respectively, for the three months ended March 31, 2017. The ongoing impact of this guidance will be dependent on any transaction that is within its scope.

In March 2016, the FASB issued guidance which changes the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities and classification in the Consolidated Statement of Cash Flows. The guidance was effective and adopted by the company on January 1, 2017, and it did not have a material impact in the Consolidated Statement of Financial Position. The ongoing impact of the guidance could result in increased volatility in the provision for income taxes and earnings per share in the Consolidated Statement of Earnings, depending on the company's share price at exercise or vesting of share-based awards compared to grant date, however these impacts are not expected to be material. These impacts are recorded on a prospective basis. See note 5, Stock-Based Compensation, for additional information. The company continues to estimate forfeitures in conjunction with measuring stock-based compensation cost. The guidance also requires cash payments on behalf of employees for shares directly withheld for taxes to be presented as financing outflows in the Consolidated Statement of Cash Flows. Prior to adoption, the company reported this activity as an operating cash outflow and as a result, prior periods have been reclassified as required.

In September 2015, the FASB issued guidance eliminating the requirement that an acquirer in a business combination account for a measurement-period adjustment retrospectively. Instead, an acquirer will recognize a measurement-period adjustment during the period in which the amount of the adjustment is determined. In addition, the portion of the amount recorded in current-period earnings by line item that would have been recorded in previous reporting periods if the adjustment to the provisional amounts had been recognized as of the acquisition date should be presented separately on the face of the income statement or disclosed in the notes. The guidance was effective January 1, 2016 on a prospective basis. The guidance did not have a material impact in the consolidated financial results.

In May 2015, the FASB issued guidance which removed the requirement to categorize within the fair value hierarchy all investments for which fair value is measured using the net asset value per share practical expedient. The amendments also removed the requirement to make certain disclosures for all investments that are eligible to be measured at fair value using the net asset value per share practical expedient. Rather, those disclosures are limited to investments for which the entity has elected to measure the fair value using that practical expedient. The guidance was effective January 1, 2016. The guidance was a change in disclosure only and did not have an impact in the consolidated financial results.

In April 2015, the FASB issued guidance about whether a cloud computing arrangement includes a software license. If a cloud computing arrangement includes a software license, then the customer should account for the software license element of the arrangement consistent with the acquisition of other software licenses. If a cloud computing arrangement does not include a software license, the customer should account for the arrangement as a services contract. All software licenses recognized under this guidance will be accounted for consistent with other licenses of intangible assets. The guidance was effective January 1, 2016 and the company adopted it on a prospective basis. The guidance did not have a material impact in the consolidated financial results.

**3. Financial Instruments:**

**Fair Value Measurements**

Accounting guidance defines fair value as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Under this guidance, the company is required to classify certain assets and liabilities based on the following fair value hierarchy:

- Level 1 Quoted prices (unadjusted) in active markets for identical assets or liabilities that can be accessed at the measurement date;
  
- Level 2 Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly; and
  
- Level 3 Unobservable inputs for the asset or liability.

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**Notes to Consolidated Financial Statements (continued)**

The guidance requires the use of observable market data if such data is available without undue cost and effort.

When available, the company uses unadjusted quoted market prices in active markets to measure the fair value and classifies such items as Level 1. If quoted market prices are not available, fair value is based upon internally developed models that use current market-based or independently sourced market parameters such as interest rates and currency rates. Items valued using internally generated models are classified according to the lowest level input or value driver that is significant to the valuation.

The determination of fair value considers various factors including interest rate yield curves and time value underlying the financial instruments. For derivatives and debt securities, the company uses a discounted cash flow analysis using discount rates commensurate with the duration of the instrument.

In determining the fair value of financial instruments, the company considers certain market valuation adjustments to the base valuations calculated using the methodologies described below for several parameters that market participants would consider in determining fair value:

- Counterparty credit risk adjustments are applied to financial instruments, taking into account the actual credit risk of a counterparty as observed in the credit default swap market to determine the true fair value of such an instrument.
- Credit risk adjustments are applied to reflect the company's own credit risk when valuing all liabilities measured at fair value. The methodology is consistent with that applied in developing counterparty credit risk adjustments, but incorporates the company's own credit risk as observed in the credit default swap market.

As an example, the fair value of derivatives is derived utilizing a discounted cash flow model that uses observable market inputs such as known notional value amounts, yield curves, spot and forward exchange rates as well as discount rates. These inputs relate to liquid, heavily traded currencies with active markets which are available for the full term of the derivative.

Certain financial assets are measured at fair value on a nonrecurring basis. These assets include equity method investments that are recognized at fair value at the measurement date to the extent that they are deemed to be other-than-temporarily impaired. Certain assets that are measured at fair value on a recurring basis can be subject to nonrecurring fair value measurements. These assets include available-for-sale equity investments that are deemed to be other-than-temporarily impaired. In the event of an other-than-temporary impairment of a financial investment, fair value is measured using a model described above.

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Non-financial assets such as property, plant and equipment, land, goodwill and intangible assets are also subject to nonrecurring fair value measurements if they are deemed to be impaired. The impairment models used for nonfinancial assets depend on the type of asset. During the three months ended March 31, 2016, a pre-tax impairment charge related to certain property, plant and equipment of \$252 million was recorded. There were no material impairments of non-financial assets for the three months ended March 31, 2017.

Accounting guidance permits the measurement of eligible financial assets, financial liabilities and firm commitments at fair value, on an instrument-by-instrument basis, that are otherwise not permitted to be accounted for at fair value under other accounting standards. This election is irrevocable. The company has not applied the fair value option to any eligible assets or liabilities.

The following tables present the company's financial assets and financial liabilities that are measured at fair value on a recurring basis at March 31, 2017 and December 31, 2016.

Table of Contents**Notes to Consolidated Financial Statements (continued)****(Dollars in millions)****At March 31, 2017**

	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
Cash equivalents (1)				
Time deposits and certificates of deposit	\$	\$ 5,720	\$	\$ 5,720
Money market funds	1,440			1,440
<b>Total</b>	<b>1,440</b>	<b>5,720</b>		<b>7,160(6)</b>
Debt securities - current (2)		599		599(6)
Debt securities - noncurrent (3)	1	6		7
Available-for-sale equity investments (3)	5			5
<b>Derivative assets (4)</b>				
Interest rate contracts		498		498
Foreign exchange contracts		389		389
Equity contracts		6		6
<b>Total</b>		<b>894</b>		<b>894(7)</b>
<b>Total assets</b>	<b>\$ 1,447</b>	<b>\$ 7,218</b>	<b>\$</b>	<b>\$ 8,665(7)</b>
<b>Liabilities:</b>				
<b>Derivative liabilities (5)</b>				
Foreign exchange contracts	\$	\$ 155	\$	\$ 155
Equity contracts		6		6
Interest rate contracts		5		5
<b>Total liabilities</b>	<b>\$</b>	<b>\$ 166</b>	<b>\$</b>	<b>\$ 166(7)</b>

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(1) Included within cash and cash equivalents in the Consolidated Statement of Financial Position.

(2) U.S. government securities reported as marketable securities in the Consolidated Statement of Financial Position.

(3) Included within investments and sundry assets in the Consolidated Statement of Financial Position.

(4) The gross balances of derivative assets contained within prepaid expenses and other current assets, and investments and sundry assets in the Consolidated Statement of Financial Position at March 31, 2017 were \$348 million and \$546 million, respectively.

(5) The gross balances of derivative liabilities contained within other accrued expenses and liabilities, and other liabilities in the Consolidated Statement of Financial Position at March 31, 2017 were \$130 million and \$35 million, respectively.

(6) Available-for-sale securities with carrying values that approximate fair value.

(7) If derivative exposures covered by a qualifying master netting agreement had been netted in the Consolidated Statement of Financial Position, the total derivative asset and liability positions each would have been reduced by \$122 million.

Table of Contents**Notes to Consolidated Financial Statements (continued)****(Dollars in millions)****At December 31, 2016**

	Level 1	Level 2	Level 3	Total
<b>Assets:</b>				
Cash equivalents (1)				
Time deposits and certificates of deposit	\$	\$ 3,629	\$	\$ 3,629
Money market funds	1,204			1,204
<b>Total</b>	<b>1,204</b>	<b>3,629</b>		<b>4,832(6)</b>
Debt securities - current (2)		699		699(6)
Debt securities - noncurrent (3)	1	6		8
Available-for-sale equity investments (3)	7			7
<b>Derivative assets (4)</b>				
Interest rate contracts		555		555
Foreign exchange contracts		560		560
Equity contracts		11		11
<b>Total</b>		<b>1,126</b>		<b>1,126(7)</b>
<b>Total assets</b>	<b>\$ 1,212</b>	<b>\$ 5,460</b>	<b>\$</b>	<b>\$ 6,672(7)</b>
<b>Liabilities:</b>				
<b>Derivative liabilities (5)</b>				
Foreign exchange contracts	\$	\$ 188	\$	\$ 188
Equity contracts		10		10
Interest rate contracts		8		8
<b>Total liabilities</b>	<b>\$</b>	<b>\$ 206</b>	<b>\$</b>	<b>\$ 206(7)</b>

(1) Included within cash and cash equivalents in the Consolidated Statement of Financial Position.

(2) U.S government securities reported as marketable securities in the Consolidated Statement of Financial Position.

(3) Included within investments and sundry assets in the Consolidated Statement of Financial Position.

(4) The gross balances of derivative assets contained within prepaid expenses and other current assets, and investments and sundry assets in the Consolidated Statement of Financial Position at December 31, 2016 were \$532 million and \$594 million, respectively.

(5) The gross balances of derivative liabilities contained within other accrued expenses and liabilities, and other liabilities in the Consolidated Statement of Financial Position at December 31, 2016 were \$145 million and \$61 million, respectively.

(6) Available-for-sale securities with carrying values that approximate fair value.

(7) If derivative exposures covered by a qualifying master netting agreement had been netted in the Consolidated Statement of Financial Position, the total derivative asset and liability positions each would have been reduced by \$116 million.

There were no transfers between Levels 1 and 2 for the three months ended March 31, 2017 and the year ended December 31, 2016.

**Financial Assets and Liabilities Not Measured at Fair Value**

Short-Term Receivables and Payables

Notes and other accounts receivable and other investments are financial assets with carrying values that approximate fair value. Accounts payable, other accrued expenses and short-term debt (excluding the current portion of long-term debt) are financial liabilities with carrying values that approximate fair value. If measured at fair value in the financial statements, these financial instruments would be classified as Level 3 in the fair value hierarchy, except for short-term debt, which would be classified as Level 2.

Loans and Long-term Receivables

Fair values are based on discounted future cash flows using current interest rates offered for similar loans to clients with similar credit ratings for the same remaining maturities. At March 31, 2017 and December 31, 2016, the difference between the carrying amount and estimated fair value for loans and long-term receivables was immaterial. If measured at fair value in the financial statements, these financial instruments would be classified as Level 3 in the fair value hierarchy.



Table of Contents**Notes to Consolidated Financial Statements (continued)**

## Long-Term Debt

Fair value of publicly-traded long-term debt is based on quoted market prices for the identical liability when traded as an asset in an active market. For other long-term debt for which a quoted market price is not available, an expected present value technique that uses rates currently available to the company for debt with similar terms and remaining maturities is used to estimate fair value. The carrying amount of long-term debt was \$34,441 million and \$34,655 million, and the estimated fair value was \$36,733 million and \$36,838 million at March 31, 2017 and December 31, 2016, respectively. If measured at fair value in the financial statements, long-term debt (including the current portion) would be classified as Level 2 in the fair value hierarchy.

**Debt and Marketable Equity Securities**

The company's cash equivalents and current debt securities are considered available-for-sale and recorded at fair value, which is not materially different from carrying value, in the Consolidated Statement of Financial Position.

The following tables summarize the company's noncurrent debt and marketable equity securities which are considered available-for-sale and recorded at fair value in the Consolidated Statement of Financial Position.

(Dollars in millions) At March 31, 2017:	Adjusted Cost		Gross Unrealized Gains		Gross Unrealized Losses		Fair Value
Debt securities noncurrent(1)	\$	5	\$	2	\$	\$	7
Available-for-sale equity investments(1)	\$	1	\$	4	\$	0	\$ 5

(1) Included within investments and sundry assets in the Consolidated Statement of Financial Position.

(Dollars in millions) At December 31, 2016:	Adjusted Cost		Gross Unrealized Gains		Gross Unrealized Losses		Fair Value
Debt securities noncurrent(1)	\$	5	\$	3	\$	\$	8
Available-for-sale equity investments(1)	\$	3	\$	5	\$	0	\$ 7

(1) Included within investments and sundry assets in the Consolidated Statement of Financial Position.

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During the fourth quarter of 2014, the company acquired equity securities in conjunction with the sale of the System x business which were classified as available-for-sale securities. Based on an evaluation of available evidence as of December 31, 2015, the company recorded an other-than-temporary impairment loss of \$86 million resulting in an adjusted cost basis of \$185 million as of December 31, 2015. In the first quarter of 2016, the company recorded a gross realized loss of \$37 million (before taxes) related to the sale of all the outstanding shares. The loss on this sale was recorded in other (income) and expense in the Consolidated Statement of Earnings.

Sales of debt and available-for-sale equity investments during the period were as follows:

(Dollars in millions)

For the three months ended March 31:

	2017		2016	
Proceeds	\$	5	\$	148
Gross realized gains (before taxes)		1		
Gross realized losses (before taxes)		2		37

Table of Contents**Notes to Consolidated Financial Statements (continued)**

The after-tax net unrealized holding gains/(losses) on available-for-sale debt and marketable equity securities that have been included in other comprehensive income/(loss) for the period and the after-tax net (gains)/losses reclassified from accumulated other comprehensive income/(loss) to net income were as follows:

(Dollars in millions)

For the three months ended March 31:	2017		2016
Net unrealized gains/(losses) arising during the period	\$	(1)	\$ (22)
Net unrealized (gains)/losses reclassified to net income*		1	23

\* There were no writedowns for the three months ended March 31, 2017 and 2016, respectively.

The contractual maturities of substantially all available-for-sale debt securities are less than one year at March 31, 2017.

**Derivative Financial Instruments**

The company operates in multiple functional currencies and is a significant lender and borrower in the global markets. In the normal course of business, the company is exposed to the impact of interest rate changes and foreign currency fluctuations, and to a lesser extent equity and commodity price changes and client credit risk. The company limits these risks by following established risk management policies and procedures, including the use of derivatives, and, where cost effective, financing with debt in the currencies in which assets are denominated. For interest rate exposures, derivatives are used to better align rate movements between the interest rates associated with the company's lease and other financial assets and the interest rates associated with its financing debt. Derivatives are also used to manage the related cost of debt. For foreign currency exposures, derivatives are used to better manage the cash flow volatility arising from foreign exchange rate fluctuations.

As a result of the use of derivative instruments, the company is exposed to the risk that counterparties to derivative contracts will fail to meet their contractual obligations. To mitigate the counterparty credit risk, the company has a policy of only entering into contracts with carefully selected major financial institutions based upon their overall credit profile. The company's established policies and procedures for mitigating credit risk on principal transactions include reviewing and establishing limits for credit exposure and continually assessing the creditworthiness of counterparties. The right of set-off that exists under certain of these arrangements enables the legal entities of the company subject to the arrangement to net amounts due to and from the counterparty reducing the maximum loss from credit risk in the event of counterparty default.

The company is also a party to collateral security arrangements with most of its major derivative counterparties. These arrangements require the company to hold or post collateral (cash or U.S. Treasury securities) when the derivative fair values exceed contractually established thresholds. Posting thresholds can be fixed or can vary based on credit default swap pricing or credit ratings received from the major credit agencies. The

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aggregate fair value of all derivative instruments under these collateralized arrangements that were in a liability position at March 31, 2017 and December 31, 2016 was \$4 million and \$11 million, respectively, for which no collateral was posted at either date. Full collateralization of these agreements would be required in the event that the company's credit rating falls below investment grade or if its credit default swap spread exceeds 250 basis points, as applicable, pursuant to the terms of the collateral security arrangements. The aggregate fair value of derivative instruments in asset positions as of March 31, 2017 and December 31, 2016 was \$894 million and \$1,126 million, respectively. This amount represents the maximum exposure to loss at the reporting date if the counterparties failed to perform as contracted. This exposure was reduced by \$122 million and \$116 million at March 31, 2017 and December 31, 2016, respectively, of liabilities included in master netting arrangements with those counterparties. Additionally, at March 31, 2017 and December 31, 2016, this exposure was reduced by \$91 million and \$141 million of cash collateral, respectively, and \$35 million of non-cash collateral in U.S. Treasury securities at December 31, 2016. There were no non-cash collateral balances in U.S. Treasury securities at March 31, 2017. At March 31, 2017 and December 31, 2016, the net exposure related to derivative assets recorded in the Consolidated Statement of Financial Position was \$681 million and \$834 million, respectively. At March 31, 2017 and December 31, 2016, the net exposure related to derivative liabilities recorded in the Consolidated Statement of Financial Position was \$44 million and \$90 million, respectively.

In the Consolidated Statement of Financial Position, the company does not offset derivative assets against liabilities in master netting arrangements nor does it offset receivables or payables recognized upon payment or receipt of cash collateral against the fair values of the related derivative instruments. No amount was recognized in other receivables at March 31, 2017 or December 31, 2016 for the right to reclaim cash collateral. The amount recognized in accounts payable for the obligation to return cash collateral was \$91 million and \$141 million at March 31, 2017 and December 31, 2016, respectively. The company restricts the use of cash collateral received to rehypothecation, and therefore reports it in prepaid

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**Notes to Consolidated Financial Statements (continued)**

expenses and other current assets in the Consolidated Statement of Financial Position. No amount was rehypothecated at March 31, 2017 and December 31, 2016.

The company may employ derivative instruments to hedge the volatility in stockholders' equity resulting from changes in currency exchange rates of significant foreign subsidiaries of the company with respect to the U.S. dollar. These instruments, designated as net investment hedges, expose the company to liquidity risk as the derivatives have an immediate cash flow impact upon maturity which is not offset by a cash flow from the translation of the underlying hedged equity. The company monitors this cash loss potential on an ongoing basis and may discontinue some of these hedging relationships by de-designating or terminating the derivative instrument in order to manage the liquidity risk. Although not designated as accounting hedges, the company may utilize derivatives to offset the changes in the fair value of the de-designated instruments from the date of de-designation until maturity.

In its hedging programs, the company uses forward contracts, futures contracts, interest-rate swaps, cross-currency swaps, and options depending upon the underlying exposure. The company is not a party to leveraged derivative instruments.

A brief description of the major hedging programs, categorized by underlying risk, follows.

**Interest Rate Risk**

**Fixed and Variable Rate Borrowings**

The company issues debt in the global capital markets to fund its operations and financing business. Access to cost-effective financing can result in interest rate mismatches with the underlying assets. To manage these mismatches and to reduce overall interest cost, the company uses interest-rate swaps to convert specific fixed-rate debt issuances into variable-rate debt (i.e., fair value hedges) and to convert specific variable-rate debt issuances into fixed-rate debt (i.e., cash flow hedges). At March 31, 2017 and December 31, 2016, the total notional amount of the company's interest rate swaps was \$7.3 billion at both periods. The weighted-average remaining maturity of these instruments at March 31, 2017 and December 31, 2016 was approximately 6.0 years and 6.2 years, respectively.

**Forecasted Debt Issuance**

The company is exposed to interest rate volatility on future debt issuances. To manage this risk, the company may use forward starting interest-rate swaps to lock in the rate on the interest payments related to the forecasted debt issuance. These swaps are accounted for as cash flow hedges. The company did not have any derivative instruments relating to this program outstanding at March 31, 2017 and December 31,

2016.

At March 31, 2017 and December 31, 2016, net gains of less than \$1 million (before taxes), respectively, were recorded in accumulated other comprehensive income/(loss) in connection with cash flow hedges of the company's borrowings. Within these amounts, less than \$1 million of gains, respectively, are expected to be reclassified to net income within the next 12 months, providing an offsetting economic impact against the underlying transactions.

#### **Foreign Exchange Risk**

#### **Long-Term Investments in Foreign Subsidiaries (Net Investment)**

A large portion of the company's foreign currency denominated debt portfolio is designated as a hedge of net investment in foreign subsidiaries to reduce the volatility in stockholders' equity caused by changes in foreign currency exchange rates in the functional currency of major foreign subsidiaries with respect to the U.S. dollar. The company also uses cross-currency swaps and foreign exchange forward contracts for this risk management purpose. At March 31, 2017 and December 31, 2016, the total notional amount of derivative instruments designated as net investment hedges was \$6.4 billion and \$6.7 billion, respectively. At March 31, 2017 and December 31, 2016, the weighted-average remaining maturity of these instruments was approximately 0.2 years at both periods.

#### **Anticipated Royalties and Cost Transactions**

The company's operations generate significant nonfunctional currency, third-party vendor payments and intercompany payments for royalties and goods and services among the company's non-U.S. subsidiaries and with the parent company. In anticipation of these foreign currency cash flows and in view of the volatility of the currency markets, the company selectively employs foreign exchange forward contracts to manage its currency risk. These forward contracts are accounted

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**Notes to Consolidated Financial Statements (continued)**

for as cash flow hedges. The maximum length of time over which the company has hedged its exposure to the variability in future cash flows is four years. At March 31, 2017 and December 31, 2016, the total notional amount of forward contracts designated as cash flow hedges of forecasted royalty and cost transactions was \$8.1 billion and \$8.3 billion, respectively. The weighted-average remaining maturity of these instruments at March 31, 2017 and December 31, 2016 was 0.7 years at both periods.

At March 31, 2017 and December 31, 2016, in connection with cash flow hedges of anticipated royalties and cost transactions, the company recorded net gains of \$342 million and \$462 million (before taxes), respectively, in accumulated other comprehensive income/(loss). Within these amounts, \$245 million and \$397 million of gains, respectively, are expected to be reclassified to net income within the next 12 months, providing an offsetting economic impact against the underlying anticipated transactions.

**Foreign Currency Denominated Borrowings**

The company is exposed to exchange rate volatility on foreign currency denominated debt. To manage this risk, the company employs cross-currency swaps to convert fixed-rate foreign currency denominated debt to fixed-rate debt denominated in the functional currency of the borrowing entity. These swaps are accounted for as cash flow hedges. The maximum length of time over which the company has hedged its exposure to the variability in future cash flows is approximately nine years. At March 31, 2017 and December 31, 2016, the total notional amount of cross-currency swaps designated as cash flow hedges of foreign currency denominated debt was \$1.4 billion at both periods.

At March 31, 2017 and December 31, 2016, in connection with cash flow hedges of foreign currency denominated borrowings, the company recorded net gains of \$19 million and net gains of \$29 million (before taxes), respectively, in accumulated other comprehensive income/(loss). Within these amounts, \$27 million of gains at both periods are expected to be reclassified to net income within the next 12 months, providing an offsetting economic impact against the underlying exposure.

**Subsidiary Cash and Foreign Currency Asset/Liability Management**

The company uses its Global Treasury Centers to manage the cash of its subsidiaries. These centers principally use currency swaps to convert cash flows in a cost-effective manner. In addition, the company uses foreign exchange forward contracts to economically hedge, on a net basis, the foreign currency exposure of a portion of the company's nonfunctional currency assets and liabilities. The terms of these forward and swap contracts are generally less than one year. The changes in the fair values of these contracts and of the underlying hedged exposures are generally offsetting and are recorded in other (income) and expense in the Consolidated Statement of Earnings. At March 31, 2017 and December 31, 2016, the total notional amount of derivative instruments in economic hedges of foreign currency exposure was \$10.1 billion and \$12.7 billion, respectively.

**Equity Risk Management**

The company is exposed to market price changes in certain broad market indices and in the company's own stock primarily related to certain obligations to employees. Changes in the overall value of these employee compensation obligations are recorded in selling, general and administrative (SG&A) expense in the Consolidated Statement of Earnings. Although not designated as accounting hedges, the company utilizes derivatives, including equity swaps and futures, to economically hedge the exposures related to its employee compensation obligations. The derivatives are linked to the total return on certain broad market indices or the total return on the company's common stock, and are recorded at fair value with gains or losses also reported in SG&A expense in the Consolidated Statement of Earnings. At March 31, 2017 and December 31, 2016, the total notional amount of derivative instruments in economic hedges of these compensation obligations was \$1.2 billion at both periods.

#### **Other Risks**

The company may hold warrants to purchase shares of common stock in connection with various investments that are deemed derivatives because they contain net share or net cash settlement provisions. The company records the changes in the fair value of these warrants in other (income) and expense in the Consolidated Statement of Earnings. The company did not have any significant warrants qualifying as derivatives outstanding at March 31, 2017 and December 31, 2016.

The company is exposed to a potential loss if a client fails to pay amounts due under contractual terms. The company may utilize credit default swaps to economically hedge its credit exposures. The swaps are recorded at fair value with gains



Table of Contents**Notes to Consolidated Financial Statements (continued)**

and losses reported in other (income) and expense in the Consolidated Statement of Earnings. The company did not have any derivative instruments relating to this program outstanding at March 31, 2017 and December 31, 2016.

The company is exposed to market volatility on certain investment securities. The company may utilize options or forwards to economically hedge its market exposure. The derivatives are recorded at fair value with gains and losses reported in other (income) and expense in the Consolidated Statement of Earnings. At March 31, 2017 and December 31, 2016, the company did not have any derivative instruments relating to this program outstanding.

The following tables provide a quantitative summary of the derivative and non-derivative instrument-related risk management activity as of March 31, 2017 and December 31, 2016, as well as for the three months ended March 31, 2017 and 2016, respectively.

**Fair Values of Derivative Instruments in the Consolidated Statement of Financial Position****As of March 31, 2017 and December 31, 2016**

(Dollars in millions)	Fair Value of Derivative Assets			Fair Value of Derivative Liabilities		
	Balance Sheet Classification	3/31/2017	12/31/2016	Balance Sheet Classification	3/31/2017	12/31/2016
<b>Designated as hedging instruments:</b>						
Interest rate contracts:						
	Prepaid expenses and other current assets	\$	\$	Other accrued expenses and liabilities	\$	\$
	Investments and sundry assets	498	555	Other liabilities	4	8
Foreign exchange contracts:						
	Prepaid expenses and other current assets	295	421	Other accrued expenses and liabilities	61	46
	Investments and sundry assets	47	17	Other liabilities	31	35
	<b>Fair value of derivative assets</b>	<b>\$ 841</b>	<b>\$ 993</b>	<b>Fair value of derivative liabilities</b>	<b>\$ 97</b>	<b>\$ 89</b>
<b>Not designated as hedging instruments:</b>						
Foreign exchange contracts:						
	Prepaid expenses and other current assets	\$ 47	\$ 100	Other accrued expenses and liabilities	\$ 63	\$ 89
	Investments and sundry assets	0	22	Other liabilities		18
Equity contracts:						
		6	11		6	10

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Prepaid expenses and other current assets			Other accrued expenses and liabilities					
Investments and sundry assets			Other liabilities					
Fair value of derivative assets	\$		Fair value of derivative liabilities	\$				
	53	\$	133	68	\$	117		
<b>Total debt designated as hedging instruments:</b>								
Short-term debt	N/A		N/A	\$	788	\$	1,125	
Long-term debt	N/A		N/A	\$	7,977	\$	7,844	
<b>Total</b>	\$	894	\$	1,126	\$	8,931	\$	9,175

N/A - not applicable

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## Notes to Consolidated Financial Statements (continued)

## The Effect of Derivative Instruments in the Consolidated Statement of Earnings

For the three months ended March 31, 2017 and 2016

(Dollars in millions) For the three months ended March 31:	Consolidated Statement of Earnings Line Item	Gain (Loss) Recognized in Earnings Recognized on Derivatives		Attributable to Risk Being Hedged(2)	
		2017	2016	2017	2016
<b>Derivative instruments in fair value hedges (1) (5):</b>					
<b>Derivative instruments not designated as hedging instruments:</b>					
Interest rate contracts	Other (income) and expense		0	N/A	N/A
Total		\$ (32)	\$ 426	\$ 42	\$ (233)

## Gain (Loss) Recognized in Earnings and Other Comprehensive Income

(Dollars in millions) For the three months ended March 31:	Effective Portion Recognized in OCI		Consolidated Statement of Earnings Line Item	Effective Portion Reclassified from AOCI		Ineffectiveness and Amounts Excluded from Effectiveness Testing(3)	
	2017	2016		2017	2016	2017	2016
<b>Derivative instruments in cash flow hedges:</b>							
Foreign exchange contracts	(33)	(265)	Other (income) and expense	65	87	1	1
			Cost of sales*	11	9		
			Cost of services*	8	(6)		
			SG&A expense	20	3		
Foreign exchange contracts	(282)	(693)	Interest expense			19	10

\* Reclassified to conform to 2017 presentation

N/A - not applicable

Note: OCI represents other comprehensive income/(loss) in the Consolidated Statement of Comprehensive Income and AOCI represents accumulated other comprehensive income/(loss) in the Consolidated Statement of Changes in Equity.

- (1) The amount includes changes in clean fair values of the derivative instruments in fair value hedging relationships and the periodic accrual for coupon payments required under these derivative contracts.
- (2) The amount includes basis adjustments to the carrying value of the hedged item recorded during the period and amortization of basis adjustments recorded on de-designated hedging relationships during the period.
- (3) The amount of gain/(loss) recognized in income represents ineffectiveness on hedge relationships.
- (4) Instruments in net investment hedges include derivative and non-derivative instruments.
- (5) For the three month periods ended March 31, 2017 and March 31, 2016, fair value hedges resulted in a loss of less than \$1 million and a gain of \$2 million in ineffectiveness, respectively.

Table of Contents**Notes to Consolidated Financial Statements (continued)**

For the three months ending March 31, 2017 and 2016, there were no significant gains or losses recognized in earnings representing hedge ineffectiveness or excluded from the assessment of hedge effectiveness (for fair value hedges), or associated with an underlying exposure that did not or was not expected to occur (for cash flow hedges); nor are there any anticipated in the normal course of business.

**4. Financing Receivables:** The following table presents financing receivables, net of allowances for credit losses, including residual values.

(Dollars in millions)	At March 31, 2017	At December 31, 2016
<b>Current:</b>		
Net investment in sales-type and direct financing leases	\$ 2,875	\$ 2,909
Commercial financing receivables	7,460	9,706
Client loan and installment payment receivables (loans)	6,027	6,390
<b>Total</b>	<b>\$ 16,362</b>	<b>\$ 19,006</b>
<b>Noncurrent:</b>		
Net investment in sales-type and direct financing leases	\$ 3,733	\$ 3,950
Client loan and installment payment receivables (loans)	4,769	5,071
<b>Total</b>	<b>\$ 8,502</b>	<b>\$ 9,021</b>

Net investment in sales-type and direct financing leases relates principally to the company's Systems products and are for terms ranging generally from two to six years. Net investment in sales-type and direct financing leases includes unguaranteed residual values of \$574 million and \$585 million at March 31, 2017 and December 31, 2016, respectively, and is reflected net of unearned income of \$496 million and \$513 million, and net of allowance for credit losses of \$140 million and \$133 million at those dates, respectively.

Commercial financing receivables, net of allowance for credit losses of \$26 million and \$28 million at March 31, 2017 and December 31, 2016, respectively, relate primarily to inventory and accounts receivable financing for dealers and remarketers of IBM and OEM products. Payment terms for inventory and accounts receivable financing generally range from 30 to 90 days.

Client loan and installment payment receivables (loans), net of allowance for credit losses of \$285 million and \$276 million at March 31, 2017 and December 31, 2016, respectively, are loans that are provided primarily to clients to finance the purchase of hardware, software and services. Payment terms on these financing arrangements are generally for terms up to seven years.

Client loan and installment payment financing contracts are priced independently at competitive market rates. The company has a history of enforcing the terms of these financing agreements.

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The company utilizes certain of its financing receivables as collateral for nonrecourse borrowings. Financing receivables pledged as collateral for borrowings were \$658 million and \$689 million at March 31, 2017 and December 31, 2016, respectively.

The company did not have any financing receivables held for sale as of March 31, 2017 and December 31, 2016.

### **Financing Receivables by Portfolio Segment**

The following tables present financing receivables on a gross basis, excluding the allowance for credit losses and residual value, by portfolio segment and by class, excluding commercial financing receivables and other miscellaneous financing receivables at March 31, 2017 and December 31, 2016. The company determines its allowance for credit losses based on two portfolio segments: lease receivables and loan receivables, and further segments the portfolio into three classes: Americas, Europe/Middle East/Africa (EMEA), and Asia Pacific. This portfolio segmentation was changed from growth markets and major markets in 2017 as the company no longer manages the business under those market delineations. There was no impact to segment reporting or the company's Consolidated Financial Statements.

Table of Contents**Notes to Consolidated Financial Statements (continued)****(Dollars in millions)**

<b>At March 31, 2017</b>	<b>Americas</b>	<b>EMEA</b>	<b>Asia Pacific</b>	<b>Total</b>
<b>Financing receivables</b>				
Lease receivables	\$ 3,602	\$ 1,154	\$ 1,342	\$ 6,098
Loan receivables	5,826	3,062	2,193	11,081
Ending balance	\$ 9,428	\$ 4,216	\$ 3,535	\$ 17,179
Collectively evaluated for impairment	\$ 9,250	\$ 4,190	\$ 3,371	\$ 16,811
Individually evaluated for impairment	\$ 179	\$ 26	\$ 164	\$ 368
<b>Allowance for credit losses</b>				
Beginning balance at January 1, 2017				
Lease receivables	\$ 54	\$ 4	\$ 76	\$ 133
Loan receivables	169	18	89	276
Total	\$ 223	\$ 22	\$ 165	\$ 410
Write-offs	\$ (9)	\$ 0	\$ 0	\$ (9)
Recoveries	0	0	0	0
Provision	6	7	(1)	12
Other	2	1	8	11
Ending balance at March 31, 2017	\$ 223	\$ 29	\$ 172	\$ 424
Lease receivables	\$ 61	\$ 4	\$ 75	\$ 140
Loan receivables	\$ 162	\$ 26	\$ 97	\$ 285
Collectively evaluated for impairment	\$ 54	\$ 11	\$ 14	\$ 80
Individually evaluated for impairment	\$ 169	\$ 18	\$ 157	\$ 344

**(Dollars in millions)**

<b>At December 31, 2016:*</b>	<b>Americas</b>	<b>EMEA</b>	<b>Asia Pacific</b>	<b>Total</b>
<b>Financing receivables:</b>				
Lease receivables	\$ 3,830	\$ 1,171	\$ 1,335	\$ 6,336
Loan receivables	6,185	3,309	2,243	11,737
Ending balance	\$ 10,015	\$ 4,480	\$ 3,578	\$ 18,073
Collectively evaluated for impairment	\$ 9,847	\$ 4,460	\$ 3,419	\$ 17,726
Individually evaluated for impairment	\$ 168	\$ 20	\$ 159	\$ 347
<b>Allowance for credit losses</b>				
Beginning balance at January 1, 2016				
Lease receivables	\$ 52	\$ 17	\$ 143	\$ 213
Loan receivables	122	55	200	377
Total	\$ 175	\$ 72	\$ 343	\$ 590
Write-offs	\$ (36)	\$ (48)	\$ (154)	\$ (237)
Recoveries	2	0	0	2
Provision	65	(1)	(6)	58
Other	17	(1)	(18)	(3)
Ending balance at December 31, 2016	\$ 223	\$ 22	\$ 165	\$ 410
Lease receivables	\$ 54	\$ 4	\$ 76	\$ 133
Loan receivables	\$ 169	\$ 18	\$ 89	\$ 276
Collectively evaluated for impairment	\$ 62	\$ 13	\$ 15	\$ 90
Individually evaluated for impairment	\$ 161	\$ 9	\$ 150	\$ 320

\* Reclassified to conform to 2017 presentation.

When determining the allowances, financing receivables are evaluated either on an individual or a collective basis. For individually evaluated receivables, the company determines the expected cash flow for the receivable and calculates an estimate of the potential loss and the probability of loss. For those accounts in which the loss is probable, the company records a specific reserve. In addition, the company records an unallocated reserve that is determined by applying a reserve rate to its different portfolios, excluding accounts that have been specifically reserved. This reserve rate is based upon credit rating, probability of default, term, characteristics (lease/loan) and loss history.



Table of Contents**Notes to Consolidated Financial Statements (continued)****Financing Receivables on Non-Accrual Status**

The following table presents the recorded investment in financing receivables which were on non-accrual status at March 31, 2017 and December 31, 2016.

(Dollars in millions)	At March 31, 2017		At December 31, 2016*	
Americas	\$	28	\$	23
EMEA		27		2
Asia Pacific		14		14
Total lease receivables	\$	68	\$	40
Americas	\$	133	\$	128
EMEA		31		5
Asia Pacific		8		12
Total loan receivables	\$	172	\$	145
Total receivables	\$	241	\$	185

\* Reclassified to conform to 2017 presentation.

**Impaired Receivables**

The company considers any receivable with an individually evaluated reserve as an impaired receivable. Depending on the level of impairment, receivables will also be placed on non-accrual status.

The following tables present impaired receivables. This presentation now includes both loan and lease receivables.

(Dollars in millions)	At March 31, 2017		At December 31, 2016*	
	Recorded Investment	Related Allowance	Recorded Investment	Related Allowance
Americas	\$ 179	\$ 169	\$ 168	\$ 161
EMEA	26	18	20	9
Asia Pacific	164	157	159	150
Total	\$ 368	\$ 344	\$ 347	\$ 320

\* Reclassified to conform to 2017 presentation.

(Dollars in millions) For the three months ended March 31, 2017:	Average Recorded Investment	Interest Income Recognized	Interest Income Recognized on Cash Basis
Americas	\$ 173	\$ 0	\$ 0
EMEA	23	0	0
Asia Pacific	161	1	1
Total	\$ 357	\$ 1	\$ 1

(Dollars in millions) For the three months ended March 31, 2016:*	Average Recorded Investment	Interest Income Recognized	Interest Income Recognized on Cash Basis
Americas	\$ 133	\$ 0	\$ 0
EMEA	69	0	0
Asia Pacific	342	0	0
Total	\$ 544	\$ 0	\$ 0

\* Reclassified to conform to 2017 presentation.

Table of Contents**Notes to Consolidated Financial Statements (continued)****Credit Quality Indicators**

The company's credit quality indicators, which are based on rating agency data, publicly available information and information provided by customers, are reviewed periodically based on the relative level of risk. The resulting indicators are a numerical rating system that maps to Moody's Investors Service credit ratings as shown below. The company uses information provided by Moody's, where available, as one of many inputs in its determination of customer credit ratings.

The following tables present the net recorded investment for each class of receivables, by credit quality indicator, at March 31, 2017 and December 31, 2016. Receivables with a credit quality indicator ranging from Aaa to Baa3 are considered investment grade. All others are considered non-investment grade. The credit quality indicators do not reflect mitigation actions that the company takes to transfer credit risk to third parties.

(Dollars in millions) At March 31, 2017:	Lease Receivables			Loan Receivables		
	Americas	EMEA	Asia Pacific	Americas	EMEA	Asia Pacific
<b>Credit Ratings:</b>						
Aaa Aa3	\$ 397	\$ 48	\$ 57	\$ 635	\$ 127	\$ 95
A1 A3	703	99	550	1,125	261	910
Baa1 Baa3	699	355	313	1,117	937	517
Ba1 Ba2	776	355	180	1,241	937	297
Ba3 B1	547	207	88	875	546	146
B2 B3	354	74	62	566	197	103
Caa D	65	12	17	104	32	28
<b>Total</b>	<b>\$ 3,541</b>	<b>\$ 1,150</b>	<b>\$ 1,267</b>	<b>\$ 5,664</b>	<b>\$ 3,036</b>	<b>\$ 2,096</b>

At March 31, 2017, the industries which made up Global Financing's receivables portfolio consisted of: Financial (35 percent), Government (14 percent), Manufacturing (14 percent), Services (11 percent), Retail (8 percent), Communications (7 percent), Healthcare (6 percent) and Other (6 percent).

(Dollars in millions) At December 31, 2016:*	Lease Receivables			Loan Receivables		
	Americas	EMEA	Asia Pacific	Americas	EMEA	Asia Pacific
<b>Credit Ratings:</b>						
Aaa Aa3	\$ 447	\$ 51	\$ 53	\$ 712	\$ 143	\$ 90
A1 A3	782	113	486	1,246	318	832
Baa1 Baa3	772	366	330	1,230	1,032	565
Ba1 Ba2	822	350	185	1,309	987	316
Ba3 B1	574	208	106	914	585	182
B2 B3	297	71	84	472	201	143
Caa D	83	9	15	133	25	25

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<b>Total</b>	\$	3,776	\$	1,167	\$	1,259	\$	6,016	\$	3,291	\$	2,154
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\* Reclassified to conform to 2017 presentation.

At December 31, 2016, the industries which made up Global Financing's receivables portfolio consisted of: Financial (34 percent), Government (14 percent), Manufacturing (13 percent), Services (12 percent), Retail (8 percent), Communications (7 percent), Healthcare (6 percent) and Other (6 percent).

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## Notes to Consolidated Financial Statements (continued)

## Past Due Financing Receivables

(Dollars in millions) At March 31, 2017:	Total Past Due > 90 days (1)	Fully Reserved Financing Receivables	<90 Days or Unbilled Financing Receivables	Total Financing Receivables	Recorded Investment > 90 Days and Accruing (2)
Americas	\$ 21	\$ 27	\$ 3,554	\$ 3,602	\$ 102
EMEA	6	8	1,140	1,154	13
Asia Pacific	11	64	1,267	1,342	16
Total lease receivables	\$ 38	\$ 100	\$ 5,961	\$ 6,098	\$ 130
Americas	\$ 25	\$ 97	\$ 5,704	\$ 5,826	\$ 141
EMEA	15	10	3,037	3,062	34
Asia Pacific	8	93	2,093	2,193	16
Total loan receivables	\$ 47	\$ 200	\$ 10,833	\$ 11,081	\$ 191
Total	\$ 85	\$ 300	\$ 16,794	\$ 17,179	\$ 321

(1) Only the portion of a financing receivable which is greater than 90 days past due, excluding amounts that are fully reserved.

(2) At a contract level, which includes total billed and unbilled amounts for aged financing receivables greater than 90 days.

(Dollars in millions) At December 31, 2016:*	Total Past Due > 90 days (1)	Fully Reserved Financing Receivables	<90 Days or Unbilled Financing Receivables	Total Financing Receivables	Recorded Investment > 90 Days and Accruing (2)
Americas	\$ 17	\$ 20	\$ 3,793	\$ 3,830	\$ 66
EMEA	2	10	1,159	1,171	6
Asia Pacific	12	59	1,264	1,335	40
Total lease receivables	\$ 31	\$ 89	\$ 6,216	\$ 6,336	\$ 111
Americas	\$ 19	\$ 90	\$ 6,075	\$ 6,185	\$ 80
EMEA	5	5	3,299	3,309	15
Asia Pacific	6	87	2,150	2,243	46
Total loan receivables	\$ 31	\$ 182	\$ 11,524	\$ 11,737	\$ 141
Total	\$ 62	\$ 271	\$ 17,740	\$ 18,073	\$ 253

(1) Only the portion of a financing receivable which is greater than 90 days past due, excluding amounts that are fully reserved.

(2) At a contract level, which includes total billed and unbilled amounts for aged financing receivables greater than 90 days.

\* Reclassified to conform with 2017 presentation.

**Troubled Debt Restructurings**

The company did not have any significant troubled debt restructurings during the three months ended March 31, 2017 or for the year ended December 31, 2016.

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**5. Stock-Based Compensation:** Stock-based compensation cost is measured at grant date, based on the fair value of the award, and is recognized over the employee requisite service period. The following table presents total stock-based compensation cost included in income from continuing operations.

(Dollars in millions)				
For the three months ended March 31:	2017		2016	
Cost	\$	23	\$	21
Selling, general and administrative		91		99
Research, development and engineering		15		13
Pre-tax stock-based compensation cost		129		133
Income tax benefits		(48)		(43)
Total net stock-based compensation cost	\$	81	\$	90

Pre-tax stock-based compensation cost for the three months ended March 31, 2017 decreased \$4 million compared to the corresponding period in the prior year. This was due to decreases in performance share units (\$14 million) and the conversion of stock-based awards previously issued by acquired entities (\$6 million), partially offset by increases related to restricted stock units (\$16 million).

Income tax benefits for the three months ended March 31, 2017 include an \$8 million benefit which resulted from the implementation of the new FASB guidance for share-based payment transactions. Refer to note 2, Accounting Changes, for additional information.

The amount of stock-based compensation cost included in discontinued operations, net of tax, was immaterial in all periods presented.

As of March 31, 2017, the total unrecognized compensation cost of \$804 million related to non-vested awards was expected to be recognized over a weighted-average period of approximately 2.5 years.

There was no significant capitalized stock-based compensation cost at March 31, 2017 and 2016.

**6. Segments:** The table on page 27 reflects the results of continuing operations of the company's segments consistent with the management and measurement system utilized within the company. Performance measurement is based on operating pre-tax income from continuing operations. The segments represent components of the company for which separate financial information is available that is utilized on a regular basis by the chief operating decision maker (the chief executive officer) in determining how to allocate resources and evaluate performance.





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## Notes to Consolidated Financial Statements (continued)

## SEGMENT INFORMATION

For the three months  
ended March 31, 2017:

Internal revenue	716	86	160	167	363	1,492
Pre-tax income from continuing operations	\$ 1,274	\$ 291	\$ 687	\$ (186)	\$ 311	\$ 2,377
Pre-tax income year-to-year change	25.7%	53.4%	166.1%	nm	(19.5)%	29.4%
External revenue	\$ 3,979	\$ 4,131	\$ 8,424	\$ 1,675	\$ 410	\$ 18,619
Total revenue	\$ 4,647	\$ 4,245	\$ 8,589	\$ 1,888	\$ 896	\$ 20,264

## Reconciliations to IBM as Reported:

(Dollars in millions)

For the three months ended March 31:

	2017	2016
Revenue:		
Total reportable segments	\$ 19,576	\$ 20,264
Eliminations of internal transactions	(1,492)	(1,645)
Other revenue	71	66
Total consolidated revenue	\$ 18,155	\$ 18,684
Pre-tax income from continuing operations:		
Total reportable segments	\$ 2,377	\$ 1,837
Amortization of acquired intangible assets	(249)	(211)
Acquisition-related (charges)/income	(13)	27

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Non-operating retirement-related (costs)/income		(378)		(142)
Eliminations of internal transactions		(227)		(355)
Unallocated corporate amounts		(87)		(122)
Total pre-tax income from continuing operations	\$	1,424	\$	1,034

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## Notes to Consolidated Financial Statements (continued)

**7. Equity Activity:****Reclassifications and Taxes Related to Items of Other Comprehensive Income**

(Dollars in millions)	Before Tax Amount	Tax (Expense)/ Benefit	Net of Tax Amount
<b>For the three months ended March 31, 2017:</b>			
<b>Other comprehensive income/(loss):</b>			
Foreign currency translation adjustments	\$ 161	\$ 108	\$ 270
<b>Net changes related to available-for-sale securities:</b>			
Unrealized gains/(losses) arising during the period	\$ (1)	\$ 0	\$ (1)
Reclassification of (gains)/losses to other (income) and expense	1	0	1
<b>Total net changes related to available-for-sale securities</b>	<b>\$ 0</b>	<b>\$ 0</b>	<b>\$ 0</b>
<b>Unrealized gains/(losses) on cash flow hedges:</b>			
Unrealized gains/(losses) arising during the period	\$ (33)	\$ 8	\$ (25)
Reclassification of (gains)/losses to:			
Cost of sales	(11)	3	(8)
Cost of services	(8)	3	(5)
SG&A expense	(20)	5	(15)
Other (income) and expense	(65)	25	(40)
Interest expense	7	(3)	5
<b>Total unrealized gains/(losses) on cash flow hedges</b>	<b>\$ (130)</b>	<b>\$ 41</b>	<b>\$ (89)</b>
<b>Retirement-related benefit plans(1):</b>			
Prior service costs/(credits)	\$ 0	\$ 0	\$ 0
Net (losses)/gains arising during the period	61	(20)	41
Curtailments and settlements	(1)	0	(1)
Amortization of prior service (credits)/costs	(21)	7	(15)
Amortization of net (gains)/losses	710	(229)	481
<b>Total retirement-related benefit plans</b>	<b>\$ 748</b>	<b>\$ (241)</b>	<b>\$ 507</b>
<b>Other comprehensive income/(loss)</b>	<b>\$ 779</b>	<b>\$ (92)</b>	<b>\$ 688</b>

(1) These AOCI components are included in the computation of net periodic pension cost. (See note 8, Retirement-Related Benefits, for additional information.)

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## Notes to Consolidated Financial Statements (continued)

## Reclassifications and Taxes Related to Items of Other Comprehensive Income

(Dollars in millions)	Before Tax Amount	Tax (Expense)/ Benefit	Net of Tax Amount
<b>For the three months ended March 31, 2016:</b>			
<b>Other comprehensive income/(loss):</b>			
<b>Foreign currency translation adjustments</b>	\$ 239	\$ 266	\$ 505
<b>Net changes related to available-for-sale securities:</b>			
Unrealized gains/(losses) arising during the period	\$ (36)	\$ 14	\$ (22)
Reclassification of (gains)/losses to other (income) and expense	37	(14)	23
<b>Total net changes related to available-for-sale securities</b>	\$ 1	\$ 0	\$ 0
<b>Unrealized gains/(losses) on cash flow hedges:</b>			
Unrealized gains/(losses) arising during the period	\$ (265)	\$ 91	\$ (174)
Reclassification of (gains)/losses to:			
Cost of sales*	(9)	2	(7)
Cost of services*	6	(3)	4
SG&A expense	(3)	0	(3)
Other (income) and expense	(87)	33	(53)
Interest expense	2	(1)	1
<b>Total unrealized gains/(losses) on cash flow hedges</b>	\$ (356)	\$ 124	\$ (232)
<b>Retirement-related benefit plans(1):</b>			
Net (losses)/gains arising during the period	\$ (147)	\$ 53	\$ (94)
Curtailments and settlements	5	(2)	3
Amortization of prior service (credits)/costs	(25)	9	(16)
Amortization of net (gains)/losses	690	(248)	442
<b>Total retirement-related benefit plans</b>	\$ 522	\$ (187)	\$ 335
<b>Other comprehensive income/(loss)</b>	\$ 406	\$ 202	\$ 608

\* Reclassified to conform to 2017 presentation.

(1) These AOCI components are included in the computation of net periodic pension cost. (See note 8, Retirement-Related Benefits, for additional information.)

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## Notes to Consolidated Financial Statements (continued)

## Accumulated Other Comprehensive Income/(Loss) (net of tax)

(Dollars in Millions)	Net Unrealized Gains/(Losses) on Cash Flow Hedges	Foreign Currency Translation Adjustments*	Net Change Retirement- Related Benefit Plans	Net Unrealized Gains/(Losses) on Available- For-Sale Securities	Accumulated Other Comprehensive Income/(Loss)
January 1, 2017	\$ 319	\$ (3,603)	\$ (26,116)	\$ 2	\$ (29,398)
Other comprehensive income before reclassifications	(25)	270	40	(1)	284
Amount reclassified from accumulated other comprehensive income	(64)	0	466	1	404
Total change for the period	(89)	270	507	0	688
March 31, 2017	\$ 230	\$ (3,333)	\$ (25,609)	\$ 2	\$ (28,710)

\* Foreign currency translation adjustments are presented gross except for any associated hedges which are presented net of tax.

(Dollars in Millions)	Net Unrealized Gains/(Losses) on Cash Flow Hedges	Foreign Currency Translation Adjustments*	Net Change Retirement- Related Benefit Plans	Net Unrealized Gains/(Losses) on Available- For-Sale Securities	Accumulated Other Comprehensive Income/(Loss)
January 1, 2016	\$ 100	\$ (3,463)	\$ (26,248)	\$ 5	\$ (29,607)
Other comprehensive income before reclassifications	(174)	505	(91)	(22)	218
Amount reclassified from accumulated other comprehensive income	(58)	0	426	23	391
Total change for the period	(232)	505	335	0	608
March 31, 2016	\$ (133)	\$ (2,958)	\$ (25,913)	\$ 5	\$ (28,998)

\* Foreign currency translation adjustments are presented gross except for any associated hedges which are presented net of tax.

**8. Retirement-Related Benefits:** The company offers defined benefit pension plans, defined contribution pension plans, as well as nonpension postretirement plans primarily consisting of retiree medical benefits. The following table provides the pre-tax cost for all retirement-related plans.

(Dollars in millions)	2017	2016	Yr. to Yr. Percent Change
For the three months ended March 31: Retirement-related plans cost			

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Defined benefit and contribution pension plans	cost	\$	664	\$	439	51.3%
Nonpension postretirement plans	cost		61		60	2.3
Total		\$	725	\$	499	45.4%

Table of Contents**Notes to Consolidated Financial Statements (continued)**

The following table provides the components of the cost/(income) for the company's pension plans.

## Cost/(Income) of Pension Plans

(Dollars in millions) For the three months ended March 31:	U.S. Plans		Non-U.S. Plans	
	2017	2016	2017	2016
Service cost	\$ 479	\$ 513	\$ 101	\$ 104
Interest cost	479	513	201	262
Expected return on plan assets	(754)	(922)	(317)	(470)
Amortization of prior service costs/(credits)	4	3	(24)	(25)
Recognized actuarial losses	337	333	361	347
Curtailments and settlements			(1)	5
Multi-employer plans/other costs			14	18
Total net periodic pension (income)/cost of defined benefit plans	67	(74)	335	241
Cost of defined contribution plans	162	165	101	106
Total defined benefit and contribution plans cost recognized in the Consolidated Statement of Earnings	\$ 228	\$ 91	\$ 436	\$ 348

In March 2017, the company initiated a change to the investment strategy of its U.S. defined benefit plan. The 2017 target asset allocation was modified by reducing equity securities from 20 percent to 12 percent, increasing debt securities from 70 percent to 79 percent and other investments largely remained unchanged at 10 percent of total plan assets. This change is designed to reduce the risk associated with the potential negative impact that equity markets might have on the funded status of the U.S. defined benefit plan. The change is expected to reduce the 2018 expected long-term rate of return on assets from 5.75 percent to approximately 5.25 percent. See note S, Retirement-Related Benefits, on page 144 in the company's 2016 Annual Report for additional information regarding the company's investment strategy.

In 2017, the company expects to contribute approximately \$500 million to its non-U.S. defined benefit and multi-employer plans, the largest of which will be contributed to the defined benefit pension plans in Japan, Spain and the UK. This amount generally represents the legally mandated minimum contribution. Total contributions to the non-U.S. plans in the first three months of 2017 were \$182 million, of which \$40 million was in cash and \$142 million in U.S. Treasury securities. Total net contributions to the non-U.S. plans in the first three months of 2016 were \$107 million, of which \$65 million was in cash and \$42 million in U.S. Treasury securities. The contribution of U.S. Treasury securities is considered a non-cash transaction in the Consolidated Statement of Cash Flows.

The following table provides the components of the cost/(income) for the company's nonpension postretirement plans.

Cost of Nonpension Postretirement Plans									
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(Dollars in millions)	U.S. Plan				Non-U.S. Plans			
For the three months ended March 31:	2017		2016		2017		2016	
Service cost	\$	4	\$	5	\$	1	\$	1
Interest cost		38		41		14		10
Expected return on plan assets						(2)		(1)
Amortization of prior service costs/(credits)		(2)		(2)		0		(1)
Recognized actuarial losses		5		5		2		2
Curtailments and settlements						0		
Total nonpension postretirement plan cost recognized in Consolidated Statement of Earnings	\$	46	\$	49	\$	16	\$	11

The company contributed \$135 million to the U.S. nonpension postretirement benefit plan in U.S. Treasury securities during the three months ended March 31, 2017, and \$100 million in U.S. Treasury securities during the three months ended March 31, 2016. The contribution of U.S. Treasury securities is considered a non-cash transaction in the Consolidated Statement of Cash Flows.



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**Notes to Consolidated Financial Statements (continued)**

**9. Acquisitions/Divestitures:**

**Acquisitions:** During the three months ended March 31, 2017, the company completed the acquisition of 100 percent of Agile 3 Solutions, LLC (Agile 3 Solutions), a privately held business, for cash consideration of \$14 million. Agile 3 Solutions is a developer of software used by C-Suite and senior executives to better visualize, understand and manage risks associated with the protection of sensitive data and adds capabilities to the company's security portfolio. Goodwill of \$8 million has been assigned to the Technology Services & Cloud Platforms and Cognitive Solutions segments.

The acquisition was accounted for as a business combination using the acquisition method, and accordingly, the identifiable assets acquired, the liabilities assumed, and any noncontrolling interest in the acquired entity were recorded at their estimated fair values at the date of acquisition. The acquisition did not have a material impact in the Consolidated Financial Statements.

**Divestitures:**

*Microelectronics* On October 20, 2014, IBM and GLOBALFOUNDRIES announced a definitive agreement in which GLOBALFOUNDRIES would acquire the company's Microelectronics business, including existing semiconductor manufacturing assets and operations in East Fishkill, NY and Essex Junction, VT. The commercial OEM business acquired by GLOBALFOUNDRIES includes custom logic and specialty foundry, manufacturing and related operations. The transaction closed on July 1, 2015.

At September 30, 2014, the company concluded that the Microelectronics business met the criteria for discontinued operations reporting. The disposal group constituted a component under accounting guidance. The continuing cash inflows and outflows with the discontinued component are related to the manufacturing sourcing arrangement and the transition, packaging and test services. These cash flows are not direct cash flows as they are not significant and the company has no significant continuing involvement.

All assets and liabilities of the business, classified as held for sale at June 30, 2015, were transferred at closing. The company transferred \$515 million of net cash to GLOBALFOUNDRIES in the third quarter of 2015. This amount included \$750 million of cash consideration, adjusted by the amount of working capital due from GLOBALFOUNDRIES and other miscellaneous items. A second cash payment in the amount of \$500 million was transferred in December 2016. The remaining cash consideration of \$250 million is expected to be transferred in December 2017.

Summarized financial information for discontinued operations is shown in the following table.

(Dollars in millions)	Three Months Ended March 31,	
	2017	2016
Total revenue	\$	\$
Income/(loss) from discontinued operations	\$ (6)	\$ (5)
Gain/(loss) on disposal, before tax	2	1
Total loss from discontinued operations, before income taxes	\$ (4)	\$ (5)
Provision for/(benefit from) income taxes	(2)	(2)
Loss from discontinued operations, net of tax	\$ (3)	\$ (3)

*Industry Standard Server* On January 23, 2014, IBM and Lenovo Group Limited (Lenovo) announced a definitive agreement in which Lenovo would acquire the company's industry standard server portfolio (System x) for an adjusted purchase price of \$2.1 billion, consisting of approximately \$1.8 billion in cash, with the balance in Lenovo common stock. The stock represented less than 5 percent equity ownership in Lenovo. The company sold to Lenovo its System x, BladeCenter and Flex System blade servers and switches, x86-based Flex integrated systems, NeXtScale and iDataPlex servers and associated software, blade networking and maintenance operations. As of March 31, 2016, all Lenovo common stock was sold.

The initial closing was completed on October 1, 2014. A subsequent closing occurred in most other countries in which

Table of Contents**Notes to Consolidated Financial Statements (continued)**

there was a large business footprint on December 31, 2014. The remaining countries closed on March 31, 2015. An assessment of the ongoing contractual terms of the transaction resulted in the recognition of pre-tax gains of \$63 million, \$57 million and \$9 million in 2015, 2016 and first three months of 2017, respectively.

Overall, the company expects to recognize a total pre-tax gain on the sale of approximately \$1.6 billion, which does not include associated costs related to transition and performance-based costs. Net of these charges, the pre-tax gain was approximately \$1.3 billion, of which the cumulative gain recorded as of March 31, 2017 is \$1.2 billion. The balance of the gain is expected to be recognized in 2019 upon conclusion of the maintenance agreement.

*Others* In the first quarter of 2017, the company completed one research-related divestiture. The financial terms related to this transaction were not material.

**10. Intangible Assets Including Goodwill:** The following table details the company's intangible asset balances by major asset class:

(Dollars in millions) Intangible asset class	Gross Carrying Amount	At March 31, 2017 Accumulated Amortization	Net Carrying Amount
Capitalized software	\$ 1,557	\$ (691)	\$ 865
Client relationships	2,751	(1,254)	1,497
Completed technology	3,231	(1,688)	1,542
Patents/trademarks	725	(228)	496
Other*	52	(17)	35
Total	\$ 8,314	\$ (3,879)	\$ 4,436

\* Other intangibles are primarily acquired proprietary and non-proprietary business processes, methodologies and systems.

(Dollars in millions) Intangible asset class	Gross Carrying Amount	At December 31, 2016 Accumulated Amortization	Net Carrying Amount
Capitalized software	\$ 1,537	\$ (661)	\$ 876
Client relationships	2,831	(1,228)	1,602
Completed technology	3,322	(1,668)	1,654
Patents/trademarks	730	(205)	525
Other*	46	(15)	31
Total	\$ 8,466	\$ (3,778)	\$ 4,688

\* Other intangibles are primarily acquired proprietary and non-proprietary business processes, methodologies and systems.

The net carrying amount of intangible assets decreased \$252 million during the first quarter of 2017, primarily due to intangible asset amortization, partially offset by additions resulting from capitalized software. The aggregate intangible amortization expense was \$390 million and \$347 million for the quarters ended March 31, 2017 and 2016, respectively. In addition, in the first three months of 2017, the company retired \$289 million of fully amortized intangible assets, impacting both the gross carrying amount and accumulated amortization by this amount.

The amortization expense for each of the five succeeding years relating to intangible assets currently recorded in the Consolidated Statement of Financial Position is estimated to be the following at March 31, 2017:

(Dollars in millions)	Capitalized Software	Acquired Intangibles	Total
2017 (for Q2 - Q4)	\$ 391	\$ 707	\$ 1,098
2018	347	811	1,158
2019	119	648	768
2020	8	549	557
2021		437	437

Table of Contents**Notes to Consolidated Financial Statements (continued)**

The change in the goodwill balances by reportable segment, for the three months ended March 31, 2017 and for the year ended December 31, 2016 are as follows:

(Dollars in millions) Segment	Balance 01/01/17	Goodwill Additions	Purchase Price Adjustments	Divestitures	Foreign Currency Translation And Other Adjustments*	Balance 3/31/17
Cognitive Solutions	\$ 19,484	\$ 3	\$ 4	\$	\$ 26	\$ 19,518
Global Business Services	4,607		2		35	4,643
Technology Services & Cloud Platforms	10,258	5	(3)		35	10,295
Systems	1,850				1	1,851
Total	\$ 36,199	\$ 8	\$ 3	\$	\$ 97	\$ 36,307

\* Primarily driven by foreign currency translation.

(Dollars in millions) Segment	Balance 01/01/16	Goodwill Additions	Purchase Price Adjustments	Divestitures	Foreign Currency Translation And Other Adjustments*	Balance 12/31/16
Cognitive Solutions	\$ 15,621	\$ 3,821	\$ 5	\$ (12)	\$ 48	\$ 19,484
Global Business Services	4,396	303	4	(1)	(95)	4,607
Technology Services & Cloud Platforms	10,156	119	(12)	(5)	(1)	10,258
Systems	1,848		(4)		5	1,850
Total	\$ 32,021	\$ 4,244	\$ (7)	\$ (18)	\$ (42)	\$ 36,199

\* Primarily driven by foreign currency translation.

There were no goodwill impairment losses recorded during the first three months of 2017 or the full year of 2016 and the company has no accumulated impairment losses.

Purchase price adjustments recorded in the first three months of 2017 and full year 2016 were related to acquisitions that were completed on or prior to December 31, 2016 or September 30, 2016, respectively, and were still subject to the measurement period that ends at the earlier of 12 months from the acquisition date or when information becomes available. Net purchase price adjustments of \$3 million were recorded during the first three months of 2017, with the primary driver being deferred tax assets. Net purchase price adjustments of \$7 million were recorded during 2016, with the primary drivers being deferred tax assets, accounts receivable, deferred income, inventory and other current liabilities.

**11. Borrowings:****Short-Term Debt**

(Dollars in millions)	At March 31, 2017	At December 31, 2016
Commercial paper	\$ 899	\$ 899
Short-term loans	285	375
Long-term debt current maturities	8,055	6,239
Total	\$ 8,340	\$ 7,513

The weighted-average interest rate for commercial paper at December 31, 2016 was 0.7 percent. The weighted-average interest rate for short-term loans was 7.7 percent and 9.5 percent at March 31, 2017 and December 31, 2016, respectively.

Table of Contents**Notes to Consolidated Financial Statements (continued)****Long-Term Debt**

## Pre-Swap Borrowing

(Dollars in millions)	Maturities	Balance 3/31/2017	Balance 12/31/2016
U.S. dollar debt (average interest rate at March 31, 2017):*			
4.69%	2017	\$ 3,980	\$ 5,104
3.24%	2018-2019	8,967	8,856
1.86%	2020-2021	6,198	4,941
1.54%	2022	2,903	1,901
3.38%	2023	1,500	1,500
3.63%	2024	2,000	2,000
7.00%	2025	600	600
3.45%	2026	1,350	1,350
3.01%	2027	969	469
6.50%	2028	313	313
5.88%	2032	600	600
8.00%	2038	83	83
5.60%	2039	745	745
4.00%	2042	1,107	1,107
7.00%	2045	27	27
4.70%	2046	650	650
7.13%	2096	316	316
		\$ 32,309	\$ 30,563
Other currencies (average interest rate at March 31, 2017, in parentheses):*			
Euros (1.6%)	2019-2028	\$ 7,217	\$ 7,122
Pound sterling (2.7%)	2020-2022	1,312	1,296
Japanese yen (0.9%)	2017-2026	1,649	1,576
Canadian (2.2%)	2017		373
Other (10.0%)	2017-2020	305	215
		\$ 42,792	\$ 41,145
Less: net unamortized discount		838	839
Less: net unamortized debt issuance costs		84	82
Add: fair value adjustment**		627	669
		\$ 42,498	\$ 40,893
Less: current maturities		8,055	6,239
Total		\$ 34,441	\$ 34,655

\* Includes notes, debentures, bank loans, securitized borrowings and capital lease obligations.

\*\* The portion of the company's fixed-rate debt obligations that is hedged is reflected in the Consolidated Statement of Financial Position as an amount equal to the sum of the debt's carrying value plus a fair value adjustment representing changes in the fair value of the hedged debt obligations attributable to movements in benchmark interest rates.

There are no debt securities issued and outstanding by IBM International Group Capital LLC, which is an indirect, 100 percent owned finance subsidiary of International Business Machines Corporation, the parent. Any debt securities issued by IBM International Group Capital LLC, would be fully and unconditionally guaranteed by the parent.

The company's indenture governing its debt securities and its various credit facilities each contain significant covenants which obligate the company to promptly pay principal and interest, limit the aggregate amount of secured indebtedness and sale and leaseback transactions to 10 percent of the company's consolidated net tangible assets, and restrict the company's ability to merge or consolidate unless certain conditions are met. The credit facilities also include a covenant on the company's consolidated net interest expense ratio, which cannot be less than 2.20 to 1.0, as well as a cross default provision with respect to other defaulted indebtedness of at least \$500 million.

The company is in compliance with all of its significant debt covenants and provides periodic certifications to its lenders. The failure to comply with its debt covenants could constitute an event of default with respect to the debt to which such provisions apply. If certain events of default were to occur, the principal and interest on the debt to which such event of default applied would become immediately due and payable.



Table of Contents**Notes to Consolidated Financial Statements (continued)**

Pre-swap annual contractual maturities of long-term debt outstanding at March 31, 2017, are as follows:

(Dollars in millions)	<b>Total</b>	
2017 (for Q2 - Q4)	\$	4,845
2018		4,995
2019		5,256
2020		5,889
2021		3,933
2022 and beyond		17,875
<b>Total</b>	<b>\$</b>	<b>42,792</b>

**Interest on Debt**

(Dollars in millions)	<b>2017</b>		<b>2016</b>	
<b>For the three months ended March 31:</b>				
Cost of financing	\$	158	\$	138
Interest expense		155		157
Net investment derivative activity		(19)		(10)
Interest capitalized		0		1
<b>Total interest paid and accrued</b>	<b>\$</b>	<b>293</b>	<b>\$</b>	<b>286</b>

**12. Contingencies:** As a company with a substantial employee population and with clients in more than 175 countries, IBM is involved, either as plaintiff or defendant, in a variety of ongoing claims, demands, suits, investigations, tax matters and proceedings that arise from time to time in the ordinary course of its business. The company is a leader in the information technology industry and, as such, has been and will continue to be subject to claims challenging its IP rights and associated products and offerings, including claims of copyright and patent infringement and violations of trade secrets and other IP rights. In addition, the company enforces its own IP against infringement, through license negotiations, lawsuits or otherwise. Also, as is typical for companies of IBM's scope and scale, the company is party to actions and proceedings in various jurisdictions involving a wide range of labor and employment issues (including matters related to contested employment decisions, country-specific labor and employment laws, and the company's pension, retirement and other benefit plans), as well as actions with respect to contracts, product liability, securities, foreign operations, competition law and environmental matters. These actions may be commenced by a number of different parties, including competitors, clients, current or former employees, government and regulatory agencies, stockholders and representatives of the locations in which the company does business. Some of the actions to which the company is party may involve particularly complex technical issues, and some actions may raise novel questions under the laws of the various jurisdictions in which these matters arise.

The company records a provision with respect to a claim, suit, investigation or proceeding when it is probable that a liability has been incurred and the amount of the loss can be reasonably estimated. Any recorded liabilities, including any changes to such liabilities for the quarter ended

March 31, 2017 were not material to the Consolidated Financial Statements.

In accordance with the relevant accounting guidance, the company provides disclosures of matters for which the likelihood of material loss is at least reasonably possible. In addition, the company also discloses matters based on its consideration of other matters and qualitative factors, including the experience of other companies in the industry, and investor, customer and employee relations considerations.

With respect to certain of the claims, suits, investigations and proceedings discussed herein, the company believes at this time that the likelihood of any material loss is remote, given, for example, the procedural status, court rulings, and/or the strength of the company's defenses in those matters. With respect to the remaining claims, suits, investigations and proceedings discussed in this note, except as specifically discussed herein, the company is unable to provide estimates of reasonably possible losses or range of losses, including losses in excess of amounts accrued, if any, for the following reasons. Claims, suits, investigations and proceedings are inherently uncertain, and it is not possible to predict the ultimate outcome of these matters. It is the company's experience that damage amounts claimed in litigation against it are unreliable and unrelated to possible outcomes, and as such are not meaningful indicators of the company's potential liability. Further, the company is unable to provide such an estimate due to a number of other factors with respect to these claims, suits, investigations and proceedings, including considerations of the procedural status of the matter in question, the presence of complex or novel legal theories, and/or the ongoing discovery and development of information important to the matters. The company reviews claims, suits, investigations and proceedings at least quarterly, and decisions are made with respect to recording or adjusting provisions and disclosing reasonably possible losses or range of losses (individually or in the aggregate), to reflect the impact

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**Notes to Consolidated Financial Statements (continued)**

and status of settlement discussions, discovery, procedural and substantive rulings, reviews by counsel and other information pertinent to a particular matter.

Whether any losses, damages or remedies finally determined in any claim, suit, investigation or proceeding could reasonably have a material effect on the company's business, financial condition, results of operations or cash flows will depend on a number of variables, including: the timing and amount of such losses or damages; the structure and type of any such remedies; the significance of the impact any such losses, damages or remedies may have in the Consolidated Financial Statements; and the unique facts and circumstances of the particular matter that may give rise to additional factors. While the company will continue to defend itself vigorously, it is possible that the company's business, financial condition, results of operations or cash flows could be affected in any particular period by the resolution of one or more of these matters.

The following is a summary of the more significant legal matters involving the company.

The company is a defendant in an action filed on March 6, 2003 in state court in Salt Lake City, Utah by the SCO Group (SCO v. IBM). The company removed the case to Federal Court in Utah. Plaintiff is an alleged successor in interest to some of AT&T's UNIX IP rights, and alleges copyright infringement, unfair competition, interference with contract and breach of contract with regard to the company's distribution of AIX and Dynix and contribution of code to Linux and the company has asserted counterclaims. On September 14, 2007, plaintiff filed for bankruptcy protection, and all proceedings in this case were stayed. The court in another suit, the SCO Group, Inc. v. Novell, Inc., held a trial in March 2010. The jury found that Novell is the owner of UNIX and UnixWare copyrights; the judge subsequently ruled that SCO is obligated to recognize Novell's waiver of SCO's claims against IBM and Sequent for breach of UNIX license agreements. On August 30, 2011, the Tenth Circuit Court of Appeals affirmed the district court's ruling and denied SCO's appeal of this matter. In June 2013, the Federal Court in Utah granted SCO's motion to reopen the SCO v. IBM case. In February 2016, the Federal Court ruled in favor of IBM on all of SCO's remaining claims, and in March 2016, SCO filed a notice of appeal to the Tenth Circuit Court of Appeals.

On May 13, 2010, IBM and the State of Indiana (acting on behalf of the Indiana Family and Social Services Administration) sued one another in a dispute over a 2006 contract regarding the modernization of social service program processing in Indiana. After six weeks of trial, on July 18, 2012, the Indiana Superior Court in Marion County rejected the State's claims in their entirety and awarded IBM \$52 million plus interest and costs. On February 13, 2014, the Indiana Court of Appeals reversed portions of the trial judge's findings, found IBM in material breach, and ordered the case remanded to the trial judge to determine the State's damages, if any. The Indiana Court of Appeals also affirmed approximately \$50 million of the trial court's award of damages to IBM. On March 22, 2016, the Indiana Supreme Court affirmed the outcome of the Indiana Court of Appeals and remanded the case to the Indiana Superior Court.

On March 9, 2017, the Commonwealth of Pennsylvania's Department of Labor and Industry sued IBM in Pennsylvania state court regarding a 2006 contract for the development of a custom software system to manage the Commonwealth's unemployment insurance benefits programs. The matter is pending in a Pennsylvania court.

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On October 29, 2013, Bridgestone Americas, Inc. (Bridgestone) sued IBM regarding a 2009 contract for the implementation of an SAP-based, enterprise-wide order management system. IBM counterclaimed against Bridgestone and its parent, Bridgestone Corp. The case is pending in the Middle District of Tennessee.

On April 16, 2014, Iusacell SA de C.V. (Iusacell) sued IBM, claiming that IBM made fraudulent misrepresentations that induced Iusacell to enter into an agreement with IBM Mexico. Iusacell claims damages for lost profits. Iusacell's complaint relates to a contractual dispute in Mexico, which is the subject of a pending arbitration proceeding in Mexico initiated by IBM Mexico against Iusacell for breach of the underlying agreement. On November 14, 2014, the District Court in the Southern District of New York granted IBM's motion to stay Iusacell's action against the company pending the arbitration in Mexico between Iusacell and IBM Mexico.

IBM United Kingdom Limited (IBM UK) initiated legal proceedings in May 2010 before the High Court in London against the IBM UK Pensions Trust (the UK Trust) and two representative beneficiaries of the UK Trust membership. IBM UK is seeking a declaration that it acted lawfully both in notifying the Trustee of the UK Trust that it was closing its UK defined benefit plans to future accruals for most participants and in implementing the company's new retirement policy. In April 2014, the High Court acknowledged that the changes made to its UK defined benefit plans were within IBM's discretion, but ruled that IBM breached its implied duty of good faith both in implementing these changes and in the manner in which it consulted with employees. Proceedings to determine remedies were held in July 2014, and in February 2015 the High Court held that for IBM to make changes to accruals under the plan would require a new consultation of the participants, but other changes (including to early retirement policy) would not require such consultation. IBM UK has

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**Notes to Consolidated Financial Statements (continued)**

appealed both the breach and remedies judgments. If the appeal is unsuccessful, the Court's rulings would require IBM to reverse the changes made to the UK defined benefit plans retroactive to their effective dates. This could result in an estimated non-operating one-time pre-tax charge of approximately \$290 million, plus ongoing defined benefit related accruals. In addition, IBM UK is a defendant in approximately 290 individual actions brought since early 2010 by participants of the defined benefits plans who left IBM UK. These actions, which allege constructive dismissal and age discrimination, are pending before the Employment Tribunal in Southampton UK.

In early 2012, IBM notified the SEC of an investigation by the Polish Central Anti-Corruption Bureau involving allegations of illegal activity by a former IBM Poland employee in connection with sales to the Polish government. IBM is cooperating with the SEC and Polish authorities in this matter. In April 2013, IBM learned that the U.S. Department of Justice (DOJ) is also investigating allegations related to the Poland matter, as well as allegations relating to transactions in Argentina, Bangladesh and Ukraine. The DOJ is also seeking information regarding the company's global FCPA compliance program and its public sector business. The company is cooperating with the DOJ in this matter.

In May 2015, a putative class action was commenced in the United States District Court for the Southern District of New York related to the company's October 2014 announcement that it was divesting its global commercial semiconductor technology business, alleging violations of the Employee Retirement Income Security Act (ERISA). The company, management's Retirement Plans Committee, and three current or former IBM executives were named as defendants. On September 7, 2016, the Court granted the company's motion to dismiss the plaintiffs' claims. On October 21, 2016, the plaintiffs filed an amended complaint, dropping the company as a defendant. The matter remains pending in the United States District Court.

In August 2015, IBM learned that the SEC is conducting an investigation relating to revenue recognition with respect to the accounting treatment of certain transactions in the U.S., UK and Ireland. The company is cooperating with the SEC in this matter.

The company is party to, or otherwise involved in, proceedings brought by U.S. federal or state environmental agencies under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), known as Superfund, or laws similar to CERCLA. Such statutes require potentially responsible parties to participate in remediation activities regardless of fault or ownership of sites. The company is also conducting environmental investigations, assessments or remediations at or in the vicinity of several current or former operating sites globally pursuant to permits, administrative orders or agreements with country, state or local environmental agencies, and is involved in lawsuits and claims concerning certain current or former operating sites.

The company is also subject to ongoing tax examinations and governmental assessments in various jurisdictions. Along with many other U.S. companies doing business in Brazil, the company is involved in various challenges with Brazilian tax authorities regarding non-income tax assessments and non-income tax litigation matters. The total potential amount related to all these matters for all applicable years is approximately \$1 billion, with the increase since the last quarter driven primarily by currency fluctuations and interest. The company believes it will prevail on these matters and that this amount is not a meaningful indicator of liability.

**13. Commitments:** The company's extended lines of credit to third-party entities include unused amounts of \$7,860 million and \$6,542 million at March 31, 2017 and December 31, 2016, respectively. A portion of these amounts was

available to the company's business partners to support their working capital needs. In addition, the company has committed to provide future financing to its clients in connection with client purchase agreements for approximately \$2,341 million and \$2,463 million at March 31, 2017 and December 31, 2016, respectively.

The company has applied the guidance requiring a guarantor to disclose certain types of guarantees, even if the likelihood of requiring the guarantor's performance is remote. The following is a description of arrangements in which the company is the guarantor.

The company is a party to a variety of agreements pursuant to which it may be obligated to indemnify the other party with respect to certain matters. Typically, these obligations arise in the context of contracts entered into by the company, under which the company customarily agrees to hold the party harmless against losses arising from a breach of representations and covenants related to such matters as title to the assets sold, certain intellectual property (IP) rights, specified environmental matters, third-party performance of nonfinancial contractual obligations and certain income taxes. In each of these circumstances, payment by the company is conditioned on the other party making a claim pursuant to the procedures specified in the particular contract, the procedures of which typically allow the company to challenge the other party's claims. While typically indemnification provisions do not include a contractual maximum on the company's payment,

Table of Contents**Notes to Consolidated Financial Statements (continued)**

the company's obligations under these agreements may be limited in terms of time and/or nature of claim, and in some instances, the company may have recourse against third parties for certain payments made by the company.

It is not possible to predict the maximum potential amount of future payments under these or similar agreements due to the conditional nature of the company's obligations and the unique facts and circumstances involved in each particular agreement. Historically, payments made by the company under these agreements have not had a material effect on the company's business, financial condition or results of operations.

In addition, the company guarantees certain loans and financial commitments. The maximum potential future payment under these financial guarantees was \$23 million and \$34 million at March 31, 2017 and December 31, 2016, respectively. The fair value of the guarantees recognized in the Consolidated Statement of Financial Position is not material.

Changes in the company's warranty liability for standard warranties and deferred income for extended warranty contracts are presented in the following tables.

**Standard Warranty Liability**

(Dollars in millions)	2017		2016	
Balance at January 1	\$	156	\$	181
Current period accruals		32		27
Accrual adjustments to reflect actual experience		1		(2)
Charges incurred		(41)		(41)
Balance at March 31	\$	147	\$	164

**Extended Warranty Liability**

(Dollars in millions)	2017		2016	
Aggregate deferred revenue at January 1	\$	531	\$	538
Revenue deferred for new extended warranty contracts		58		49
Amortization of deferred revenue		(68)		(66)
Other*		7		9
Aggregate deferred revenue at March 31	\$	528	\$	531
Current portion	\$	250	\$	247
Noncurrent portion	\$	278	\$	284

\* Other primarily consists of foreign currency translation adjustments.

**14. Subsequent Events:** On April 25, 2017, the company announced that the Board of Directors approved a quarterly dividend of \$1.50 per common share. The dividend is payable June 10, 2017 to shareholders of record on May 10, 2017. The dividend declaration represents an increase of \$0.10 per common share, which is 7 percent higher than the prior quarterly dividend of \$1.40 per common share.



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## Item 2.

**MANAGEMENT'S DISCUSSION AND ANALYSIS  
OF RESULTS OF OPERATIONS AND FINANCIAL CONDITION  
FOR THE THREE MONTHS ENDED MARCH 31, 2017**

## Snapshot

Financial Results Summary - Three Months Ended March 31:

(Dollars and shares in millions except per share amounts) For the three months ended March 31:	2017	2016	Yr. to Yr. Percent/ Margin Change
Revenue	\$ 18,155	\$ 18,684	(2.8)%*
Gross profit margin	42.8%	46.5%	(3.7)pts.
Total expense and other (income)	\$ 6,348	\$ 7,652	(17.0)%
Total expense and other (income)-to-revenue ratio	35.0%	41.0%	(6.0)pts.
Income from continuing operations, before income taxes	\$ 1,424	\$ 1,034	37.7%
Provision for/(benefit from) income taxes from continuing operations	\$ (329)	\$ (983)	(66.5)%
Income from continuing operations	\$ 1,753	\$ 2,016	(13.1)%
Income from continuing operations margin	9.7%	10.8%	(1.1)pts.
Loss from discontinued operations, net of tax	\$ (3)	\$ (3)	(6.8)%
Net income	\$ 1,750	\$ 2,014	(13.1)%
Earnings per share from continuing operations:			
Assuming dilution	\$ 1.85	\$ 2.09	(11.5)%
Basic	\$ 1.86	\$ 2.09	(11.0)%
Consolidated earnings per share - assuming dilution	\$ 1.85	\$ 2.09	(11.5)%
Weighted-average shares outstanding:			
Assuming dilution	947.8	964.4	(1.7)%
Basic	942.4	961.7	(2.0)%
	<b>3/31/17</b>	<b>12/31/16</b>	
Assets	\$ 117,495	\$ 117,470	0.0%
Liabilities	\$ 99,047	\$ 99,078	0.0%
Equity	\$ 18,448	\$ 18,392	0.3%

\* (2.2) percent adjusted for currency.

Organization of Information:

In October 2014, the company announced a definitive agreement to divest its Microelectronics business and manufacturing operations. The operating results of the Microelectronics business are reported as discontinued operations. The transaction closed on July 1, 2015.

Currency:

The references to adjusted for currency or at constant currency in the Management Discussion do not include operational impacts that could result from fluctuations in foreign currency rates. When the company refers to growth rates at constant currency or adjusts such growth rates for currency, it is done so that certain financial results can be viewed without the impact of fluctuations in foreign currency exchange rates, thereby facilitating period-to-period comparisons of its business performance. Financial results adjusted for currency are calculated by translating current period activity in local currency using the comparable prior year period's currency conversion rate. This approach is used for countries where the functional currency is the local currency. Generally, when the dollar either strengthens or weakens against other currencies, the growth at constant currency rates or adjusting for currency will be higher or lower than growth reported at actual exchange rates. See Currency Rate Fluctuations on page 59 for additional information.

Table of Contents**Management Discussion (continued)**Operating (non-GAAP) Earnings:

In an effort to provide better transparency into the operational results of the business, the company separates business results into operating and non-operating categories. Operating earnings from continuing operations is a non-GAAP measure that excludes the effects of certain acquisition-related charges, retirement-related costs, discontinued operations and related tax impacts. For acquisitions, operating earnings exclude the amortization of purchased intangible assets and acquisition-related charges such as in-process research and development, transaction costs, applicable restructuring and related expenses and tax charges related to acquisition integration. These charges are excluded as they may be inconsistent in amount and timing from period to period and are dependent on the size, type and frequency of the company's acquisitions. All other spending for acquired companies is included in both earnings from continuing operations and in operating (non-GAAP) earnings. Throughout the Management Discussion & Analysis, the impact of acquisitions over the prior 12-month period may be a driver of higher expenses year to year. For retirement-related costs, the company characterizes certain items as operating and others as non-operating. The company includes defined benefit plan and nonpension postretirement benefit plan service cost, amortization of prior service cost and the cost of defined contribution plans in operating earnings. Non-operating retirement-related cost includes defined benefit plan and nonpension postretirement benefit plan interest cost, expected return on plan assets, amortized actuarial gains/losses, the impacts of any plan curtailments/settlements and multi-employer plan costs, pension insolvency costs and other costs. Non-operating retirement-related costs are primarily related to changes in pension plan assets and liabilities which are tied to financial market performance and the company considers these costs to be outside of the operational performance of the business.

Overall, the company believes that providing investors with a view of operating earnings as described above provides increased transparency and clarity into both the operational results of the business and the performance of the company's pension plans; improves visibility to management decisions and their impacts on operational performance; enables better comparisons to peer companies; and allows the company to provide a long-term strategic view of the business going forward. The company's reportable segment financial results reflect operating earnings from continuing operations, consistent with the company's management and measurement system.

The following table provides the company's (non-GAAP) operating earnings for the first quarter of 2017 and 2016.

<b>(Dollars in millions except per share amounts)</b>					<b>Yr. to Yr. Percent Change</b>
<b>For the three months ended March 31:</b>	<b>2017</b>		<b>2016</b>		
Net income as reported	\$	1,750	\$	2,014	(13.1)%
Loss from discontinued operations, net of tax		(3)		(3)	(6.8)
Income from continuing operations	\$	1,753	\$	2,016	(13.1)%
Non-operating adjustments (net of tax):					
Acquisition-related charges		195		138	40.9
Non-operating retirement-related costs/(income)		308		115	166.4
Operating (non-GAAP) earnings*	\$	2,255	\$	2,270	(0.7)%
Diluted operating (non-GAAP) earnings per share	\$	2.38	\$	2.35	1.3%

\* See page 68 for a more detailed reconciliation of net income to operating earnings.

Financial Performance Summary:

In the first quarter of 2017, the company reported \$18.2 billion in revenue, \$1.8 billion in income from continuing operations and \$2.3 billion in operating (non-GAAP) earnings, resulting in diluted earnings per share from continuing operations of \$1.85 as reported and \$2.38 on an operating (non-GAAP) basis. The company generated \$4.0 billion in cash from operations and \$1.1 billion in free cash flow in the first quarter of 2017 and shareholder returns of \$2.6 billion in gross common stock repurchases and dividends.

Total consolidated revenue in the first quarter of 2017 decreased 2.8 percent as reported and 2.2 percent year to year adjusted for currency. The company continued to deliver strong performance in its strategic imperatives and also continued to deliver core capabilities to clients, running mission-critical systems and processes. Many of these products provide the foundation of hybrid environments, enabling clients to increase value from their on-premise data and applications.

The first quarter results continued to reflect the success the company is having in its strategic imperatives. The company had continued strong revenue growth in cloud, analytics and engagement, which together grew 12 percent as reported and 13 percent adjusted for currency. In the first quarter of 2017, the strategic imperatives generated \$7.8 billion in revenue, which

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**Management Discussion (continued)**

represented 43 percent of the company's revenue, an increase of 6 points from the first quarter of 2016. Total Cloud revenue of \$3.5 billion increased 33 percent as reported and 35 percent adjusted for currency, with cloud as-a-Service revenue up 59 percent as reported and 61 percent adjusted for currency. The company exited the first quarter of 2017 with an annual run rate for cloud as-a-Service revenue of \$8.6 billion. Analytics revenue of \$4.5 billion increased 6 percent as reported and 7 percent adjusted for currency. Mobile revenue increased 20 percent (22 percent adjusted for currency) and Security revenue increased 9 percent (10 percent adjusted for currency).

The company provides cognitive solutions on cloud platforms that are highly differentiated for industries. The company is the global leader in enterprise cloud with over \$14.6 billion of Cloud revenue over the prior 12 months. Progress in the first quarter of 2017 included:

- Scaling and extending the reach of Watson and the IBM Cloud with new solutions, clients and partnerships; and
- Continuing to build emerging technologies on the IBM Cloud such as blockchain and quantum including announcing the first commercial quantum system.

From a segment perspective, Cognitive Solutions revenue increased 2.1 percent as reported and 3 percent adjusted for currency with growth in Solutions Software, led by revenue growth in Analytics and Security, partially offset by a decline in Transaction Processing Software. Global Business Services (GBS) revenue decreased 3.0 percent as reported and 2 percent adjusted for currency primarily driven by a decline in Consulting revenue. On a sequential basis compared to the fourth quarter of 2016, GBS revenue growth improved 1.0 points as reported and 2 points adjusted for currency. Consulting revenue performance improved sequentially 1.7 points as reported and 3 points adjusted for currency compared to the fourth quarter of 2016. The GBS business continued to shift resources to its cognitive services, advanced analytics, and digital platforms and away from the more traditional areas. GBS strategic imperatives revenue had double-digit growth year to year as reported and adjusted for currency, led by cloud and mobile practices. Technology Services & Cloud Platforms revenue decreased 2.5 percent as reported and 2 percent adjusted for currency, primarily driven by declines in Infrastructure Services and Integration Software. Technology Services & Cloud Platforms strategic imperatives revenue was up 30 percent (31 percent adjusted for currency) year to year. Systems revenue decreased 16.8 percent (16 percent adjusted for currency) driven by product cycle dynamics, with z Systems down 40.2 percent (40 percent adjusted for currency) and Power Systems down 27.8 percent (27 percent adjusted for currency).

From a geographic perspective, Americas revenue was essentially flat year to year as reported, but decreased 1 percent adjusted for currency, with the U.S. down 1.3 percent. Europe/Middle East/Africa (EMEA) revenue decreased 8.1 percent (4 percent adjusted for currency) due primarily to declines in the U.K and Germany. Revenue performance in the geography continued to be impacted by macro- and geo-political trends. Asia Pacific revenue decreased 1.7 percent (3 percent adjusted for currency).

The consolidated gross profit margin of 42.8 percent decreased 3.7 points year to year and continued to reflect investments across the segments and the mix to as-a-Service businesses. The operating (non-GAAP) gross margin of 44.5 percent decreased 3.0 points compared to the prior year driven primarily by the same factors.

Total expense and other (income) decreased \$1,304 million or 17.0 percent in the first quarter of 2017 compared to the prior year. The year-to-year decrease was primarily the result of reduced expenses for workforce transformation and increases in intellectual property income. This included a lower level of workforce rebalancing charges (\$831 million) year to year and a prior year charge for real estate actions (\$328 million). Intellectual property income increased \$228 million year to year driven primarily by the company's software licensing arrangements. The year-to-year decrease in expense and other (income) was partially offset by increased spending related to acquisitions (3 points) completed in the prior 12 months. Total operating (non-GAAP) expense and other (income) decreased 19.9 percent year to year and was driven primarily by the same factors.

Pre-tax income from continuing operations of \$1.4 billion in the first quarter of 2017 increased 37.7 percent year to year and the pre-tax margin was 7.8 percent, an increase of 2.3 points compared to the first quarter of 2016. The continuing operations effective tax rate for the first quarter of 2017 was (23.1) percent compared to (95.1) percent in the first quarter of 2016. The negative tax rate in the first quarter of 2017 was primarily driven by discrete tax items (\$0.5 billion), including the first-quarter intra-entity transfer of assets (\$0.6 billion). The prior year negative tax rate was primarily the result of a refund (\$1.0 billion) of previously paid Japan taxes plus interest. Income from continuing operations of \$1.8 billion decreased 13.1 percent and the net income margin was 9.7 percent, a decrease of 1.1 points. Losses from discontinued operations, net of tax, were \$3 million in both the first quarter of

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**Management Discussion (continued)**

2017 and 2016. Net income of \$1.8 billion decreased 13.1 percent year to year. Operating (non-GAAP) pre-tax income from continuing operations of \$2.1 billion increased 51.7 percent year to year, primarily due to the higher workforce transformation charges in the prior year. Operating (non-GAAP) pre-tax margin from continuing operations increased 4.1 points to 11.4 percent. Operating (non-GAAP) income from continuing operations of \$2.3 billion decreased 0.7 percent and the operating (non-GAAP) income margin from continuing operations of 12.4 percent increased 0.3 points. The operating (non-GAAP) effective tax rate from continuing operations in the first quarter of 2017 was (9.3) percent versus (66.8) percent in the prior year.

Diluted earnings per share from continuing operations of \$1.85 in the first quarter of 2017 decreased 11.5 percent year to year. In the first quarter of 2017, the company repurchased 7.2 million shares of its common stock at a cost of \$1.3 billion and had \$3.8 billion remaining in the share repurchase authorization at March 31, 2017. Operating (non-GAAP) diluted earnings per share of \$2.38 increased 1.3 percent versus the first quarter of 2016.

At March 31, 2017, the company continued to have the financial flexibility to support the business over the long term. Cash and marketable securities at quarter end were \$10.7 billion, an increase of \$2.2 billion from December 31, 2016. Key drivers in the balance sheet and total cash flows were:

Total assets were flat (decreased \$1.1 billion adjusted for currency) from December 31, 2016 driven by:

- Increases in cash and marketable securities (\$2.2 billion), deferred taxes (\$1.2 billion) and retirement plan assets (\$0.5 billion); offset by
- Decreases in total receivables (\$3.9 billion).

Total liabilities were flat (decreased \$1.0 billion adjusted for currency) from December 31, 2016 driven by:

- Increases in deferred income (\$1.3 billion) and total debt (\$0.6 billion); offset by
- Decreases in accounts payable (\$0.9 billion), taxes payable (\$0.5 billion) and compensation and benefits (\$0.4 billion).

Total equity of \$18.4 billion increased \$0.1 billion from December 31, 2016 as a result of:

- Increases from net income (\$1.8 billion), retirement-related (\$0.5 billion) and equity translation adjustments (\$0.3 billion); offset by
- Decreases from dividends (\$1.3 billion) and share repurchases (\$1.3 billion).

The company generated \$4.0 billion in cash flow from operating activities, a decrease of \$1.6 billion compared to the first quarter of 2016, primarily driven by the prior-year tax refund. Investing activities were a source of cash of \$0.3 billion in the first quarter of 2017 compared to a \$1.9 billion use of cash in the first quarter of 2016, primarily driven by a decrease in cash used for acquisitions (\$2.5 billion). Financing activities were a use of cash of \$2.1 billion in the first quarter of 2017 compared to a \$2.8 billion source of cash in the first quarter of 2016, primarily driven by lower net debt issuances (\$4.5 billion) and an increase in common stock repurchases (\$0.4 billion).

In January 2017, the company disclosed that it is expecting GAAP earnings per share from continuing operations of at least \$11.95 and operating (non-GAAP) earnings of at least \$13.80 per diluted share for 2017. The company also disclosed its expectation of 2017 free cash flow to be essentially flat year to year. Refer to page 60 in the Liquidity and Capital Resources section for additional information on this non-GAAP measure. In April 2017, the company disclosed that it has maintained these expectations. Refer to the Looking Forward section on pages 58 and 59 for additional information on the company's expectations.



Table of Contents**Management Discussion (continued)****First Quarter in Review***Results of Continuing Operations*Segment Details

The following is an analysis of the first quarter of 2017 versus the first quarter of 2016 reportable segment external revenue and gross margin results. Segment pre-tax income includes transactions between segments that are intended to reflect an arm's-length transfer price and excludes certain unallocated corporate items.

(Dollars in millions) For the three months ended March 31:	2017	2016	Yr. to Yr. Percent/Margin Change	Yr. to Yr. Percent Change Adjusted For Currency
<b>Revenue:</b>				
Cognitive Solutions	\$ 4,062	\$ 3,979	2.1%	2.8%
Gross margin	77.3%	82.0%	(4.7) pts.	
Global Business Services	4,006	4,131	(3.0)%	(1.9)%
Gross margin	23.6%	25.8%	(2.2) pts.	
Technology Services & Cloud Platforms	8,216	8,424	(2.5)%	(2.0)%
Gross margin	38.9%	40.9%	(2.0) pts.	
Systems	1,395	1,675	(16.8)%	(16.1)%
Gross margin	47.5%	57.2%	(9.8) pts.	
Global Financing	405	410	(1.2)%	(2.1)%
Gross margin	31.8%	42.4%	(10.6) pts.	
Other	71	66	8.7%	8.6%
Gross margin	(425.9)%	(342.0)%	(83.9) pts.	
Total consolidated revenue	\$ 18,155	\$ 18,684	(2.8)%	(2.2)%
Total consolidated gross profit	\$ 7,772	\$ 8,686	(10.5)%	
Total consolidated gross margin	42.8%	46.5%	(3.7) pts.	
<b>Non-operating adjustments:</b>				
Amortization of acquired intangible assets	119	112	6.5%	
Retirement-related costs/(income)	193	79	143.8%	
Operating (non-GAAP) gross profit	\$ 8,083	\$ 8,877	(8.9)%	
Operating (non-GAAP) gross margin	44.5%	47.5%	(3.0) pts.	

Cognitive Solutions

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(Dollars in millions)			Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
For the three months ended March 31:	2017	2016		
Cognitive Solutions external revenue:	\$ 4,062	\$ 3,979	2.1%	2.8%
Solutions Software	\$ 2,792	\$ 2,691	3.7%	4.6%
Transaction Processing Software	1,270	1,287	(1.4)	(0.8)

Cognitive Solutions revenue of \$4,062 million grew 2.1 percent as reported and 3 percent adjusted for currency in the first quarter of 2017 compared to the prior year. As reported and adjusted for currency, revenue growth in Solutions Software, which addresses many of the company's strategic areas, was partially offset by declines in Transaction Processing Software.

Solutions Software revenue of \$2,792 million grew 3.7 percent as reported (5 percent adjusted for currency) compared to the prior year. This growth was led by analytics and security offerings. Analytics, which is the largest portion of the Solutions Software portfolio, continued to grow as reported and adjusted for currency in key areas including Watson offerings, such as Watson Health. Security contributed to year-to-year growth as reported and adjusted for currency driven by Data Protection

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and Security Intelligence. Across the Solutions portfolio, Software-as-a-Service (SaaS) revenue had strong double-digit growth as reported and adjusted for currency again this quarter.

Transaction Processing Software revenue of \$1,270 million declined 1.4 percent as reported (1 percent adjusted for currency) compared to first quarter 2016, however there was sequential improvement from the fourth quarter 2016 driven by z Systems and Storage middleware. While the overall business is declining, there are some areas that are growing, such as Software Defined Storage. Other parts of the business are high value and running mission critical workloads for clients, but the growth profile is stable to declining.

Within Cognitive Solutions, total first quarter strategic imperatives revenue of \$2.6 billion grew 6 percent as reported (7 percent adjusted for currency) year to year. Cloud revenue of \$0.6 billion grew 44 percent as reported (45 percent adjusted for currency), with an as-a-Service exit run rate of \$1.8 billion.

(Dollars in millions)			Yr. to Yr. Percent/ Margin Change
For the three months ended March 31:	2017	2016	
<b>Cognitive Solutions:</b>			
External gross profit	\$ 3,140	\$ 3,262	(3.7)%
External gross profit margin	77.3%	82.0%	(4.7)pts.
Pre-tax income	\$ 1,274	\$ 1,013	25.7%
Pre-tax margin	26.7%	21.8%	4.8pts.

Cognitive Solutions gross profit margin decreased 4.7 points to 77.3 percent in the first quarter of 2017 compared to the prior year. Pre-tax income of \$1,274 million increased 25.7 percent compared to the prior year with a pre-tax margin improvement of 4.8 points to 26.7 percent. The year-to-year benefit includes a lower level of charges related to workforce rebalancing and real estate actions as compared to the prior year.

Gross profit margin declined year to year driven by continued investment in strategic areas, including acquisitions and an increasing mix toward SaaS. Approximately 25 percent of the Cognitive Solutions business is now comprised of services and SaaS offerings, which currently has a different margin profile than the traditional software delivery offerings. In the first quarter, pre-tax margins expanded and pre-tax income improved year to year as the company continues to embed cognitive into more offerings, scaling platforms and building high value vertical solutions.

Global Business Services

Yr. to Yr.	Yr. to Yr. Percent Change
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(Dollars in millions)	2017		2016		Percent Change	Adjusted For Currency
For the three months ended March 31:						
Global Business Services external revenue:	\$	4,006	\$	4,131	(3.0)%	(1.9)%
Consulting	\$	1,769	\$	1,835	(3.6)%	(2.4)%
Global Process Services		314		348	(9.6)	(8.9)
Application Management		1,923		1,949	(1.3)	(0.1)

Global Business Services revenue of \$4,006 million decreased 3.0 percent as reported and 2 percent adjusted for currency in first quarter of 2017 compared to the prior year. Strategic imperatives grew double digits as reported and adjusted for currency, led by cloud and mobile practices. This growth was more than offset by declines in the more traditional areas that the company is shifting away from, such as large ERP and on-premise enterprise application implementations.

Consulting revenue of \$1,769 million declined 3.6 percent as reported (2 percent adjusted for currency) with lower percentage declines on a sequential basis, as reported and at constant currency. In Consulting, the shift to cognitive services, advanced analytics and digital platforms, away from more traditional areas is reflected in this revenue performance. Global Process Services (GPS) revenue of \$314 million decreased 9.6 percent as reported (9 percent adjusted for currency) compared to the prior year. Application Management revenue of \$1,923 million decreased 1.3 percent as reported (flat

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adjusted for currency) as the company continues to innovate clients' platforms, helping them migrate to new cloud architectures, increase their speed and agility and improve their competitiveness.

Within GBS, total first quarter 2017 strategic imperatives revenue of \$2.2 billion grew 12 percent as reported (13 percent adjusted for currency) year to year. Cloud revenue of \$0.9 billion grew 56 percent as reported (57 percent adjusted for currency), with an as-a-Service exit run rate of \$1.0 billion.

(Dollars in millions)			Yr. to Yr. Percent/ Margin Change
For the three months ended March 31:	2017	2016	
Global Business Services:			
External gross profit	\$ 946	\$ 1,068	(11.4)%
External gross profit margin	23.6%	25.8%	(2.2)pts.
Pre-tax income	\$ 291	\$ 190	53.4%
Pre-tax margin	7.1%	4.5%	2.6pts.

GBS gross profit margin decreased 2.2 points to 23.6 percent compared to the prior year. There were declines in Consulting and GPS, while the Application Management gross profit margin was essentially flat. In the first quarter of 2017, pre-tax income of \$291 million increased 53.4 percent and the pre-tax margin expanded 2.6 points to 7.1 percent. The year-to-year benefit includes a lower level of charges related to workforce rebalancing and real estate actions as compared to the prior year.

GBS profit performance in the first quarter reflects the company's continued investment in the strategic imperatives and the expansion of practices around cognitive, cloud, mobile and digital design, as well as additional spending in certain accounts to deliver on important client commitments. In parallel, the company is in the process of streamlining the practices infrastructure and driving efficiencies in the delivery model through new methods, solutions, and project management.

Technology Services & Cloud Platforms

(Dollars in millions)			Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
For the three months ended March 31:	2017	2016		
Technology Services & Cloud Platforms external revenue:	\$ 8,216	\$ 8,424	(2.5)%	(2.0)%
Infrastructure Services	\$ 5,485	\$ 5,626	(2.5)%	(1.9)%
Technical Support Services	1,761	1,786	(1.4)	(1.6)
Integration Software	969	1,012	(4.2)	(3.2)

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Technology Services & Cloud Platforms revenue of \$8,216 million decreased 2.5 percent as reported and 2 percent adjusted for currency in the first quarter of 2017 compared to the prior year. There was continued strong double-digit growth, as reported and adjusted for currency, in the strategic imperatives, particularly in cloud as the company builds out hybrid cloud environments for clients. Cloud as-a-Service revenue grew over 50 percent, as reported and adjusted for currency, compared to the prior year.

Infrastructure Services revenue of \$5,485 million declined 2.5 percent as reported (2 percent adjusted for currency) compared to the prior year and was impacted by the wind-down of certain contracts and certain signings that did not close during the quarter. In Infrastructure Services, the business model is to deliver productivity to clients and then grow by expanding the scope of work and adding new clients to the platform.

Technical Support Services revenue of \$1,761 million decreased 1.4 percent as reported (2 percent adjusted for currency). While revenue declined year to year, the company continued its shift to multi-vendor support services which had revenue growth again this quarter as reported and adjusted for currency.

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Integration Software revenue of \$969 million decreased 4.2 percent as reported (3 percent adjusted for currency) in the first quarter of 2017 compared to the prior year. Within Integration Software, there was growth as reported and adjusted for currency in hybrid integration software that connects and integrates applications, data, and processes across on-premise and cloud environments. Websphere Application Server revenue grew as reported and adjusted for currency demonstrating the importance of middleware in public, private and hybrid environments. On-premise Development Operations ( DevOps ) tools and IT services management software declined year to year as reported and adjusted for currency as these types of workloads continue to shift from on-premise to the cloud.

Within Technology Services & Cloud Platforms, total first quarter 2017 strategic imperatives revenue of \$2.4 billion grew 30 percent as reported (31 percent adjusted for currency) year to year. Cloud revenue of \$1.7 billion grew 41 percent as reported (42 percent adjusted for currency), with an as-a-Service exit run rate of \$5.7 billion.

(Dollars in millions)			Yr. to Yr. Percent/ Margin Change
For the three months ended March 31:	2017	2016	
<b>Technology Services &amp; Cloud Platforms:</b>			
External Technology Services gross profit	\$ 2,429	\$ 2,605	(6.7)%
External Technology Services gross profit margin	33.5%	35.1%	(1.6)pts.
External Integration Software gross profit	\$ 769	\$ 843	(8.8)%
External Integration Software gross profit margin	79.3%	83.3%	(4.0)pts.
External total gross profit	\$ 3,198	\$ 3,447	(7.2)%
External total gross profit margin	38.9%	40.9%	(2.0)pts.
Pre-tax income	\$ 687	\$ 258	166.1%
Pre-tax margin	8.2%	3.0%	5.2pts.

Technology Services & Cloud Platforms gross profit margin decreased 2.0 points to 38.9 percent in the first quarter of 2017 compared to the prior year, with declines across all lines of business. In the first quarter of 2017, pre-tax income of \$687 million increased 166.1 percent and the pre-tax margin expanded 5.2 points to 8.2 percent. The year-to-year benefit includes a lower level of charges related to workforce rebalancing and real estate actions as compared to the prior year.

Across the segment, the company's workforce rebalancing actions in 2016 resulted in savings driving gross profit improvement, which was offset by additional investment in new skill hiring and in existing skills. Within Infrastructure Services, the combination of the winding down of some large contracts, signing delays of new contracts, and investment ahead of some of the delayed signings, impacted profit margins and pre-tax income during the quarter. In Technical Support Services, margins were impacted by the shift toward multi-vendor services. In Integration Software, margins were negatively impacted in the quarter from mix to SaaS and royalty cost associated with IP partnerships. Ongoing benefits associated with these partnerships include lower development expense (RD&E) and royalties from the IP partners associated with their sales (IP income).

## Services Backlog and Signings

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(Dollars in billions)	At March 31, 2017	At March 31, 2016	Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
Total backlog	\$ 116.4	\$ 122.4	(4.9)%	(2.4)%

The estimated total services backlog at March 31, 2017 was \$116 billion, a decrease of 4.9 percent as reported, and 2 percent adjusted for currency. While both Global Technology Services (GTS) and GBS declined year to year as reported, GTS grew modestly year to year adjusted for currency, but was more than offset by a decline in GBS.

Total services backlog includes Infrastructure Services, Consulting, Global Process Services, Application Management and Technical Support Services. Total backlog is intended to be a statement of overall work under contract for these businesses and therefore includes Technical Support Services. It does not include as-a-Service offerings that have flexibility in contractual commitment terms. Backlog estimates are subject to change and are affected by several factors, including



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terminations, changes in the scope of contracts, periodic revalidations, adjustments for revenue not materialized and adjustments for currency.

Services signings are management's initial estimate of the value of a client's commitment under a services contract. There are no third-party standards or requirements governing the calculation of signings. The calculation used by management involves estimates and judgments to gauge the extent of a client's commitment, including the type and duration of the agreement, and the presence of termination charges or wind-down costs.

Signings include Infrastructure Services, Consulting, Global Process Services and Application Management contracts. Contract extensions and increases in scope are treated as signings only to the extent of the incremental new value. Technical Support Services is not included in signings as maintenance contracts tend to be more steady state, where revenues equal renewals.

Contract portfolios purchased in an acquisition are treated as positive backlog adjustments provided those contracts meet the company's requirements for initial signings. A new signing will be recognized if a new services agreement is signed incidental or coincidental to an acquisition or divestiture.

(Dollars in millions) For the three months ended March 31:	2017	2016	Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
Total signings	\$ 7,906	\$ 8,024	(1.5)%	(0.2)%

Systems

(Dollars in millions) For the three months ended March 31:	2017	2016	Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
Systems external revenue:	\$ 1,395	\$ 1,675	(16.8)%	(16.1)%
Systems Hardware	\$ 1,000	\$ 1,235	(19.0)%	(18.3)%
z Systems			(40.2)	(39.7)
Power Systems			(27.8)	(27.4)
Storage Systems			6.1	7.3
Operating Systems Software	394	440	(10.5)	(10.0)

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Systems revenue of \$1,395 million decreased 16.8 percent as reported (16 percent adjusted for currency) in the first quarter of 2017 compared to the prior year. Systems Hardware revenue of \$1,000 million decreased 19.0 percent as reported (18 percent adjusted for currency) year to year reflecting expected declines in z Systems and Power Systems indicative of the product cycles, partially offset by growth in Storage Systems as a result of repositioning for flash across the portfolio. Operating Systems Software revenue of \$394 million decreased 10.5 percent as reported (10 percent adjusted for currency) compared to the prior year.

Within Systems Hardware, z Systems revenue decreased 40.2 percent as reported (40 percent adjusted for currency) year to year reflecting product cycle dynamics. However, nine quarters into the z13 cycle, the company continued to add new clients to the platform, with 7 new clients in the first quarter of 2017 and a total of 87 since introduction of the z13.

Power Systems revenue decreased 27.8 percent as reported (27 percent adjusted for currency) year to year reflecting the company's shift to a growing Linux market while continuing to serve a high value, but declining UNIX market. While Linux had continued revenue growth as reported and adjusted for currency in the first quarter of 2017, UNIX declined as reported and adjusted for currency driven by midrange and low-end systems.

Storage Systems revenue increased by 6.1 percent as reported (7 percent adjusted for currency) year to year led by growth in all-flash array offerings. In the storage market, there is a continued shift in value towards software-defined environments, where the company continues to lead the market. Although not reported in the Systems segment, Software-Defined Storage also grew as reported and adjusted for currency in the first quarter of 2017.

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Within Systems, total first quarter strategic imperatives revenue of \$0.5 billion decreased 16 percent as reported (15 percent adjusted for currency) year to year. Cloud revenue of \$0.4 billion decreased 16 percent as reported and adjusted for currency.

(Dollars in millions)			Yr. to Yr. Percent/ Margin Change
For the three months ended March 31:	2017	2016	
<b>Systems:</b>			
External Systems Hardware gross profit	\$ 319	\$ 572	(44.2)%
External Systems Hardware gross profit margin	31.9%	46.4%	(14.4)pts.
External Operating Systems Software gross profit	\$ 343	\$ 387	(11.4)%
External Operating Systems Software gross profit margin	86.9%	87.8%	(0.9)pts.
External total gross profit	\$ 662	\$ 959	(31.0)%
External total gross profit margin	47.5%	57.2%	(9.8)pts.
Pre-tax income/(loss)	\$ (186)	\$ (10)	nm%
Pre-tax margin	(11.9)%	(0.5)%	(11.4)pts.

nm - not meaningful

The Systems gross profit margin decreased 9.8 points to 47.5 percent in the first quarter of 2017 compared to the prior year with declines across all hardware brands and Operating Systems software, and an impact from mix. For the first three months of 2017, the pre-tax loss was \$186 million compared with a pre-tax loss of \$10 million in the prior year which included a higher level of charges related to workforce rebalancing and real estate actions. Pre-tax margin declined 11.4 points year to year consistent with the product cycle, portfolio transition dynamics, and hardware price pressure impacting revenue and profit.

The company continues to expand its footprint and add new capabilities, which address changing workloads. While it is faced with shifting market dynamics and ongoing product transitions, the portfolio remains optimized for cognitive and cloud computing.

Global Financing

See pages 62 through 67 for a discussion of Global Financing's segment results.

Geographic Revenue

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In addition to the revenue presentation by reportable segment, the company also measures revenue performance on a geographic basis. The following geographic, regional and country-specific revenue performance excludes OEM revenue.

(Dollars in millions)			Yr. to Yr. Percent Change	Yr. to Yr. Percent Change Adjusted For Currency
For the three months ended March 31:	2017	2016		
Total Revenue	\$ 18,155	\$ 18,684	(2.8)%	(2.2)%
Geographies:	\$ 18,072	\$ 18,611	(2.9)%	(2.2)%
Americas	8,678	8,673	0.1	(1.0)
Europe/Middle East/Africa (EMEA)	5,430	5,906	(8.1)	(3.7)
Asia Pacific	3,964	4,031	(1.7)	(2.8)

Total geographic revenue of \$18,072 million decreased 2.9 percent as reported and 2 percent adjusted for currency in the first quarter of 2017 compared to the prior year. Americas revenue of \$8,678 million was essentially flat year to year as reported, but decreased 1 percent adjusted for currency. EMEA revenue of \$5,430 million decreased 8.1 percent as reported and 4 percent adjusted for currency. Asia Pacific revenue of \$3,964 million decreased 1.7 percent as reported and 3 percent adjusted for currency.

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Within Americas, U.S. revenue decreased 1.3 percent compared to the prior year. Canada was up 3.2 percent as reported, but was essentially flat year to year adjusted for currency. Latin America increased 7.0 percent as reported, and was essentially flat year to year adjusted for currency. Within Latin America, Brazil was up 18.6 percent as reported, but down 1 percent adjusted for currency, and Mexico decreased 2.4 percent as reported, but was up 4 percent adjusted for currency.

The EMEA year-to-year revenue decline as reported and adjusted for currency was driven by the UK down 19.0 percent (7 percent adjusted for currency) and Germany down 7.7 percent (5 percent adjusted for currency), while Norway was up 18.0 percent (15 percent adjusted for currency) and Italy declined 1.7 percent as reported, but increased 2 percent adjusted for currency. The Middle East and Africa region grew 2.7 percent as reported, but was essentially flat year to year adjusted for currency.

Within Asia Pacific, Japan revenue was up 0.9 percent as reported and essentially flat adjusted for currency. India grew 5.6 percent as reported and 5 percent adjusted for currency. China decreased 12.6 percent as reported (10 percent adjusted for currency). Australia decreased 12.5 percent (17 percent adjusted for currency).

ExpenseTotal Expense and Other (Income)

<b>(Dollars in millions)</b>					<b>Yr. to Yr. Percent Change</b>
<b>For the three months ended March 31:</b>	<b>2017</b>		<b>2016</b>		
Total consolidated expense and other (income)	\$	6,348	\$	7,652	(17.0)%
Non-operating adjustments:					
Amortization of acquired intangible assets	\$	(130)	\$	(99)	31.1%
Acquisition-related charges		(13)		27	nm
Non-operating retirement-related (costs)/income		(185)		(63)	192.2
Operating (non-GAAP) expense and other (income)	\$	6,020	\$	7,516	(19.9)%
Total consolidated expense-to-revenue ratio		35.0%		41.0%	(6.0)pts.
Operating (non-GAAP) expense-to-revenue ratio		33.2%		40.2%	(7.1)pts.

nm - not meaningful

For additional information regarding total expense and other (income) for both expense presentations, see the following analyses by category.

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Selling, General and Administrative Expense

(Dollars in millions)			Yr. to Yr. Percent Change
For the three months ended March 31:	2017	2016	
Selling, general and administrative expense:			
Selling, general and administrative other	\$ 4,127	\$ 4,192	(1.5)%
Advertising and promotional expense	363	348	4.4
Workforce rebalancing charges	167	998	(83.3)
Retirement-related costs	258	179	44.7
Amortization of acquired intangible assets	130	99	31.1
Stock-based compensation	91	99	(7.6)
Bad debt expense	15	97	(84.9)
Total consolidated selling, general and administrative expense	\$ 5,152	\$ 6,012	(14.3)%
Non-operating adjustments:			
Amortization of acquired intangible assets	\$ (130)	\$ (99)	31.1%
Acquisition-related charges	(9)	32	nm
Non-operating retirement-related (costs)/income	(136)	(55)	148.1
Operating (non-GAAP) selling, general and administrative expense	\$ 4,877	\$ 5,890	(17.2)%

nm not meaningful

Table of Contents**Management Discussion (continued)**

Total selling, general and administrative (SG&A) expense decreased 14.3 percent in the first quarter of 2017 versus the prior year driven primarily by the following factors:

- Lower workforce rebalancing charges (14 points); and
- The effects of currency (1 point); partially offset by
- The impact of acquisitions completed in the prior 12-month period (2 points).

Operating (non-GAAP) expense decreased 17.2 percent year to year driven by primarily the same factors.

Bad debt expense decreased \$82 million year to year, primarily driven by increased reserves in Brazil in the prior year. The receivables provision coverage was 2.2 percent at March 31, 2017, an increase of 20 basis points from December 31, 2016 and a decrease of 60 basis points from March 31, 2016. The decrease year to year in the receivables provision coverage was due to write-offs of previously reserved receivables in December 2016.

Research, Development and Engineering

(Dollars in millions)					Yr. to Yr. Percent Change
For the three months ended March 31:	2017		2016		
Total consolidated research, development and engineering expense	\$	1,533	\$	1,458	5.2%
Non-operating adjustment:	<hr/>				