

Merck & Co., Inc.
Form 10-Q
August 06, 2015

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

FORM 10-Q

(Mark One)

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

For the quarterly period ended June 30, 2015

OR

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

For the transition period from _____ to _____

Commission File No. 1-6571

Merck & Co., Inc.
2000 Galloping Hill Road
Kenilworth, N.J. 07033
(908) 740-4000

Incorporated in New Jersey

I.R.S. Employer

Identification No. 22-1918501

The number of shares of common stock outstanding as of the close of business on July 31, 2015: 2,816,635,020

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

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

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

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐

(Do not check if a smaller reporting company)

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

Part I - Financial Information

Item 1. Financial Statements

MERCK & CO., INC. AND SUBSIDIARIES

INTERIM CONSOLIDATED STATEMENT OF INCOME

(Unaudited, \$ in millions except per share amounts)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2015	2014	2015	2014
Sales	\$9,785	\$10,934	\$19,210	\$21,198
Costs, Expenses and Other				
Materials and production	3,754	4,893	7,323	8,796
Marketing and administrative	2,624	2,973	5,226	5,707
Research and development	1,670	1,664	3,407	3,238
Restructuring costs	191	163	273	288
Other (income) expense, net	739	(650)	793	(813)
	8,978	9,043	17,022	17,216
Income Before Taxes	807	1,891	2,188	3,982
Income Tax Provision (Benefit)	119	(142)	542	218
Net Income	688	2,033	1,646	3,764
Less: Net Income Attributable to Noncontrolling Interests	1	29	7	55
Net Income Attributable to Merck & Co., Inc.	\$687	\$2,004	\$1,639	\$3,709
Basic Earnings per Common Share Attributable to Merck & Co., Inc. Common Shareholders	\$0.24	\$0.69	\$0.58	\$1.27
Earnings per Common Share Assuming Dilution Attributable to Merck & Co., Inc. Common Shareholders	\$0.24	\$0.68	\$0.57	\$1.25
Dividends Declared per Common Share	\$0.45	\$0.44	\$0.90	\$0.88

MERCK & CO., INC. AND SUBSIDIARIES

INTERIM CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

(Unaudited, \$ in millions)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2015	2014	2015	2014
Net Income Attributable to Merck & Co., Inc.	\$687	\$2,004	\$1,639	\$3,709
Other Comprehensive Income (Loss) Net of Taxes:				
Net unrealized (loss) gain on derivatives, net of reclassifications	(176)	(39)	76	(105)
Net unrealized (loss) gain on investments, net of reclassifications	(14)	64	32	62
Benefit plan net gain (loss) and prior service credit (cost), net of amortization	42	(331)	77	(332)
Cumulative translation adjustment	(17)	41	(194)	128
	(165)	(265)	(9)	(247)
Comprehensive Income Attributable to Merck & Co., Inc.	\$522	\$1,739	\$1,630	\$3,462

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

MERCK & CO., INC. AND SUBSIDIARIES
CONSOLIDATED BALANCE SHEET
(Unaudited, \$ in millions except per share amounts)

	June 30, 2015	December 31, 2014
Assets		
Current Assets		
Cash and cash equivalents	\$6,922	\$7,441
Short-term investments	4,448	8,278
Accounts receivable (net of allowance for doubtful accounts of \$149 in 2015 and \$153 in 2014) (excludes accounts receivable of \$50 in 2015 and \$80 in 2014 classified in Other assets - see Note 4)	6,510	6,626
Inventories (excludes inventories of \$1,724 in 2015 and \$1,664 in 2014 classified in Other assets - see Note 5)	5,306	5,571
Deferred income taxes and other current assets	5,133	5,257
Total current assets	28,319	33,173
Investments	13,333	13,515
Property, Plant and Equipment, at cost, net of accumulated depreciation of \$16,306 in 2015 and \$18,004 in 2014	12,630	13,136
Goodwill	17,707	12,992
Other Intangibles, Net	24,750	20,386
Other Assets	5,843	5,133
	\$102,582	\$98,335
Liabilities and Equity		
Current Liabilities		
Loans payable and current portion of long-term debt	\$2,483	\$2,704
Trade accounts payable	2,335	2,625
Accrued and other current liabilities	9,517	10,523
Income taxes payable	1,878	1,606
Dividends payable	1,295	1,308
Total current liabilities	17,508	18,766
Long-Term Debt	24,069	18,699
Deferred Income Taxes	6,454	4,266
Other Noncurrent Liabilities	7,913	7,813
Merck & Co., Inc. Stockholders' Equity		
Common stock, \$0.50 par value		
Authorized - 6,500,000,000 shares	1,788	1,788
Issued - 3,577,103,522 shares in 2015 and 2014		
Other paid-in capital	40,114	40,423
Retained earnings	45,103	46,021
Accumulated other comprehensive loss	(4,332)	(4,323)
	82,673	83,909
Less treasury stock, at cost:		
753,147,765 shares in 2015 and 738,963,326 shares in 2014	36,225	35,262
Total Merck & Co., Inc. stockholders' equity	46,448	48,647
Noncontrolling Interests	190	144
Total equity	46,638	48,791

\$102,582 \$98,335

The accompanying notes are an integral part of this consolidated financial statement.

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MERCK & CO., INC. AND SUBSIDIARIES
INTERIM CONSOLIDATED STATEMENT OF CASH FLOWS
(Unaudited, \$ in millions)

	Six Months Ended June 30,	
	2015	2014
Cash Flows from Operating Activities		
Net income	\$1,646	\$3,764
Adjustments to reconcile net income to net cash provided by operating activities:		
Depreciation and amortization	3,245	3,507
Intangible asset impairment charges	73	660
Foreign exchange losses related to Venezuela	715	—
Gain on AstraZeneca option exercise	—	(741)
Equity income from affiliates	(147)	(217)
Dividends and distributions from equity affiliates	7	125
Deferred income taxes	(383)	(1,246)
Share-based compensation	146	134
Other	577	(192)
Net changes in assets and liabilities	(1,010)	(1,118)
Net Cash Provided by Operating Activities	4,869	4,676
Cash Flows from Investing Activities		
Capital expenditures	(474)	(507)
Purchases of securities and other investments	(8,621)	(12,380)
Proceeds from sales of securities and other investments	12,628	8,102
Acquisition of Cubist Pharmaceuticals, Inc., net of cash acquired	(7,598)	—
Dispositions of businesses, net of cash divested	25	558
Proceeds from AstraZeneca option exercise	—	419
Other	(40)	(48)
Net Cash Used in Investing Activities	(4,080)	(3,856)
Cash Flows from Financing Activities		
Net change in short-term borrowings	(1,529)	(1,886)
Proceeds from issuance of debt	7,940	1
Payments on debt	(2,905)	(5)
Purchases of treasury stock	(1,724)	(3,413)
Dividends paid to stockholders	(2,582)	(2,629)
Proceeds from exercise of stock options	377	1,134
Other	93	49
Net Cash Used in Financing Activities	(330)	(6,749)
Effect of Exchange Rate Changes on Cash and Cash Equivalents	(978)	51
Net Decrease in Cash and Cash Equivalents	(519)	(5,878)
Cash and Cash Equivalents at Beginning of Year	7,441	15,621
Cash and Cash Equivalents at End of Period	\$6,922	\$9,743
The accompanying notes are an integral part of this consolidated financial statement.		

Notes to Interim Consolidated Financial Statements (unaudited)

1. Basis of Presentation

The accompanying unaudited interim consolidated financial statements of Merck & Co., Inc. (“Merck” or the “Company”) have been prepared pursuant to the rules and regulations for reporting on Form 10-Q. Accordingly, certain information and disclosures required by accounting principles generally accepted in the United States for complete consolidated financial statements are not included herein. These interim statements should be read in conjunction with the audited financial statements and notes thereto included in Merck’s Form 10-K filed on February 27, 2015.

On January 21, 2015, the Company acquired Cubist Pharmaceuticals, Inc. (“Cubist”). The results of Cubist’s business have been included in Merck’s financial statements subsequent to the acquisition date.

The results of operations of any interim period are not necessarily indicative of the results of operations for the full year. In the Company’s opinion, all adjustments necessary for a fair presentation of these interim statements have been included and are of a normal and recurring nature. Certain reclassifications have been made to prior year amounts to conform to the current presentation.

Recently Issued Accounting Standards

In May 2014, the Financial Accounting Standards Board (the “FASB”) issued amended accounting guidance on revenue recognition that will be applied to all contracts with customers. The objective of the new guidance is to improve comparability of revenue recognition practices across entities and to provide more useful information to users of financial statements through improved disclosure requirements. In July 2015, the FASB voted to approve a one-year deferral of the effective date which will make this guidance effective for annual and interim periods beginning in 2018. Reporting entities may choose to adopt the standard as of the original effective date. The Company is currently assessing the impact of adoption on its consolidated financial statements.

2. Restructuring

2013 Restructuring Program

In 2013, the Company initiated actions under a global restructuring program (the “2013 Restructuring Program”) as part of a global initiative to sharpen its commercial and research and development focus. As part of the program, the Company expects to reduce its total workforce by approximately 8,500 positions. These workforce reductions will primarily come from the elimination of positions in sales, administrative and headquarters organizations, as well as research and development. The Company will also reduce its global real estate footprint and continue to improve the efficiency of its manufacturing and supply network. The Company will continue to hire employees in strategic growth areas of the business as necessary.

The Company recorded total pretax costs of \$159 million and \$229 million in the second quarter of 2015 and 2014, respectively, and \$217 million and \$389 million in the first six months of 2015 and 2014, respectively, related to this restructuring program. Since inception of the 2013 Restructuring Program through June 30, 2015, Merck has recorded total pretax accumulated costs of approximately \$2.7 billion and eliminated approximately 7,290 positions comprised of employee separations, as well as the elimination of contractors and vacant positions. The actions under the 2013 Restructuring Program are expected to be substantially completed by the end of 2015 with the cumulative pretax costs estimated to be approximately \$3.0 billion. The Company estimates that approximately two-thirds of the cumulative pretax costs will result in cash outlays, primarily related to employee separation expense. Approximately one-third of the cumulative pretax costs are non-cash, relating primarily to the accelerated depreciation of facilities to be closed or divested.

Merger Restructuring Program

In 2010, subsequent to the Merck and Schering-Plough Corporation (“Schering-Plough”) merger (the “Merger”), the Company commenced actions under a global restructuring program (the “Merger Restructuring Program”) designed to streamline the cost structure of the combined company. Further actions under this program were initiated in 2011. The actions under this program primarily reflect the elimination of positions in sales, administrative and headquarters organizations, as well as from the sale or closure of certain manufacturing and research and development sites and the consolidation of office facilities.

The Company recorded total pretax costs of \$169 million and \$192 million in the second quarter of 2015 and 2014, respectively, and \$336 million and \$358 million in the first six months of 2015 and 2014, respectively, related to this restructuring program. Since inception of the Merger Restructuring Program through June 30, 2015, Merck has

recorded total pretax accumulated costs of approximately \$8.2 billion and eliminated approximately 29,160 positions comprised of employee separations, as well as the elimination of contractors and vacant positions. Approximately 2,585 position eliminations remain pending under this program as of June 30, 2015. The non-manufacturing related restructuring actions under the Merger Restructuring Program were substantially completed by the end of 2013. The remaining actions under this program primarily relate to ongoing manufacturing facility rationalizations, which are expected to be substantially completed by the end of 2016. The Company expects the estimated total cumulative pretax costs for this program to be approximately \$8.5 billion. The Company estimates that approximately two-thirds of the cumulative pretax costs relate to cash outlays, primarily related to employee separation expense. Approximately one-

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

third of the cumulative pretax costs are non-cash, relating primarily to the accelerated depreciation of facilities to be closed or divested.

For segment reporting, restructuring charges are unallocated expenses.

The following tables summarize the charges related to restructuring program activities by type of cost:

(\$ in millions)	Three Months Ended June 30, 2015				Six Months Ended June 30, 2015			
	Separation Costs	Accelerated Depreciation	Other	Total	Separation Costs	Accelerated Depreciation	Other	Total
2013 Restructuring Program								
Materials and production	\$—	\$ 13	\$ 10	\$ 23	\$—	\$ 14	\$ 14	\$ 28
Marketing and administrative	—	12	3	15	—	44	5	49
Research and development	—	16	(1)	15	—	16	1	17
Restructuring costs	49	—	57	106	69	—	54	123
	49	41	69	159	69	74	74	217
Merger Restructuring Program								
Materials and production	—	4	78	82	—	16	166	182
Marketing and administrative	—	2	—	2	—	4	—	4
Research and development	—	—	—	—	—	—	—	—
Restructuring costs	10	—	75	85	19	—	131	150
	10	6	153	169	19	20	297	336
	\$59	\$ 47	\$ 222	\$ 328	\$88	\$ 94	\$ 371	\$ 553
(\$ in millions)	Three Months Ended June 30, 2014				Six Months Ended June 30, 2014			
	Separation Costs	Accelerated Depreciation	Other	Total	Separation Costs	Accelerated Depreciation	Other	Total
2013 Restructuring Program								
Materials and production	\$—	\$ 103	\$ 11	\$ 114	\$—	\$ 184	\$ 17	\$ 201
Marketing and administrative	—	28	—	28	—	47	—	47
Research and development	—	44	1	45	—	85	8	93
Restructuring costs	52	—	(10)	42	77	—	(29)	48
	52	175	2	229	77	316	(4)	389
Merger Restructuring Program								
Materials and production	—	84	(27)	57	—	152	(63)	89
Marketing and administrative	—	13	3	16	—	25	3	28
Research and development	—	(2)	—	(2)	—	—	1	1

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Restructuring costs	70	—	51	121	99	—	141	240
	70	95	27	192	99	177	82	358
	\$122	\$270	\$29	\$421	\$176	\$493	\$78	\$747

Separation costs are associated with actual headcount reductions, as well as those headcount reductions which were probable and could be reasonably estimated. In the second quarter of 2015 and 2014, approximately 460 positions and 1,375 positions, respectively, and in the first six months of 2015 and 2014, approximately 1,195 positions and 2,595 positions, respectively, were eliminated under the 2013 Restructuring Program. In the second quarter of 2015 and 2014, approximately 400 positions and 430 positions, respectively, and in the first six months of 2015 and 2014, approximately 755 positions and 790 positions, respectively, were eliminated under the Merger Restructuring Program. These position eliminations were comprised of actual headcount reductions and the elimination of contractors and vacant positions.

Accelerated depreciation costs primarily relate to manufacturing, research and administrative facilities and equipment to be sold or closed as part of the programs. Accelerated depreciation costs represent the difference between the depreciation expense to be recognized over the revised useful life of the site, based upon the anticipated date the site will be closed or divested, and depreciation expense as determined utilizing the useful life prior to the restructuring actions. All of the sites have and will continue to operate up through the respective closure dates and, since future undiscounted cash flows were sufficient to recover the respective book values, Merck was required to accelerate depreciation of the site assets rather than record an impairment charge. Anticipated site closure dates, particularly related to manufacturing locations, have been and may continue to be adjusted to reflect changes resulting from regulatory or other factors.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Other activity in 2015 and 2014 includes pretax gains and losses resulting from sales of facilities and related assets, as well as asset abandonment, shut-down and other related costs. Additionally, other activity includes certain employee-related costs associated with pension and other postretirement benefit plans (see Note 12) and share-based compensation.

The following table summarizes the charges and spending relating to restructuring activities by program for the six months ended June 30, 2015:

(\$ in millions)	Separation Costs	Accelerated Depreciation	Other	Total
2013 Restructuring Program				
Restructuring reserves January 1, 2015	\$495	\$—	\$14	\$509
Expense	69	74	74	217
(Payments) receipts, net	(259)	) —	(78)	) (337)
Non-cash activity	—	(74)	) —	(74)
Restructuring reserves June 30, 2015 ⁽¹⁾	\$305	\$—	\$10	\$315
Merger Restructuring Program				
Restructuring reserves January 1, 2015	\$536	\$—	\$6	\$542
Expense	19	20	297	336
(Payments) receipts, net	(145)	) —	(118)	) (263)
Non-cash activity	—	(20)	) (160)	) (180)
Restructuring reserves June 30, 2015 ⁽¹⁾	\$410	\$—	\$25	\$435

The cash outlays associated with the 2013 Restructuring Program are expected to be substantially completed by the end of 2015. The non-manufacturing cash outlays associated with the Merger Restructuring Program were substantially completed by the end of 2013; the remaining cash outlays are expected to be substantially completed by the end of 2016.

3. Acquisitions, Divestitures, Research Collaborations and License Agreements

The Company continues its strategy of establishing external alliances to complement its substantial internal research capabilities, including research collaborations, licensing preclinical and clinical compounds to drive both near- and long-term growth. The Company supplements its internal research with a licensing and external alliance strategy focused on the entire spectrum of collaborations from early research to late-stage compounds, as well as access to new technologies. These arrangements often include upfront payments, as well as expense reimbursements or payments to the third party, and milestone, royalty or profit share payments, contingent upon the occurrence of certain future events linked to the success of the asset in development. The Company also reviews its pipeline to examine candidates which may provide more value through out-licensing and, as part of its portfolio assessment process, may also divest certain products.

Acquisition of Cubist Pharmaceuticals, Inc.

In January 2015, Merck acquired Cubist, a leader in the development of therapies to treat serious infections caused by a broad range of bacteria. The acquisition complements Merck's existing hospital acute care business, which is a key priority area for the Company. Total consideration transferred of \$8.3 billion includes cash paid for outstanding Cubist shares of \$7.8 billion, as well as share-based compensation payments to settle equity awards attributable to precombination service and cash paid for transaction costs on behalf of Cubist. Share-based compensation payments to settle non-vested equity awards attributable to postcombination service were recognized as transaction expense in 2015. In addition, the Company assumed all of the outstanding convertible debt of Cubist, which had a fair value of approximately \$1.9 billion at the acquisition date. Merck redeemed this debt in February 2015. The transaction was accounted for as an acquisition of a business; accordingly, the assets acquired and liabilities assumed were recorded at their respective fair values as of the acquisition date.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

A preliminary allocation of the fair value of assets acquired and liabilities assumed from Cubist was made as of the acquisition date. During the second quarter of 2015, the Company adjusted the preliminary values assigned to certain assets and liabilities in order to reflect additional information obtained since the preliminary allocation that pertained to facts and circumstances that existed as of the acquisition date. These measurement period adjustments have been reflected in the opening balance sheet; however, since the adjustments did not have a significant impact on the Company's consolidated statements of income or cash flows in any period, the interim financial statements were not retrospectively adjusted. The revised allocation is as follows:

(\$ millions)

Cash and cash equivalents	\$733	
Accounts receivable	123	
Inventories	216	
Other current assets	59	
Property, plant and equipment	151	
Identifiable intangible assets:		
Products and product rights (11 year weighted-average useful life)	6,923	
In-process research and development ("IPR&D")	50	
Other noncurrent assets	186	
Current liabilities ⁽¹⁾	(216	)
Deferred income tax liabilities	(2,495	)
Long-term debt	(1,900	)
Other noncurrent liabilities ⁽¹⁾	(122	)
Total identifiable net assets	3,708	
Goodwill ⁽²⁾	4,623	
Consideration transferred	\$8,331	

(1) Included in current liabilities and other noncurrent liabilities is contingent consideration of \$73 million and \$50 million, respectively.

(2) The goodwill recognized is largely attributable to anticipated synergies expected to arise after the acquisition and was allocated to the Pharmaceutical segment. The goodwill is not deductible for tax purposes.

The estimated fair values of identifiable intangible assets related to currently marketed products were determined using an "income approach" through which fair value is estimated based on market participant expectations of each asset's discounted projected net cash flows. The Company's estimates of projected net cash flows considered historical and projected pricing, margins and expense levels; the performance of competing products where applicable; relevant industry and therapeutic area growth drivers and factors; current and expected trends in technology and product life cycles; the extent and timing of potential new product introductions by the Company's competitors; and the life of each asset's underlying patent. The net cash flows were then probability-adjusted where appropriate to consider the uncertainties associated with the underlying assumptions, as well as the risk profile of the net cash flows utilized in the valuation. The probability-adjusted future net cash flows of each product were then discounted to present value utilizing a discount rate of 8%. Actual cash flows are likely to be different than those assumed. The most significant intangible assets relate to Zerbaxa (ceftolozane and tazobactam), Cubicin (daptomycin for injection) and Sivextro (tedizolid phosphate).

The Company recorded the fair value of incomplete research project surotomycin (MK-4261) which, at the time of acquisition, had not reached technological feasibility and had no alternative future use. The amount was capitalized and accounted for as an indefinite-lived intangible asset, subject to impairment testing until completion or abandonment of the project. The fair value of surotomycin was determined by using an income approach, through which fair value is estimated based on the asset's probability-adjusted future net cash flows, which reflects the stage of development of the project and the associated probability of successful completion. The net cash flows were then discounted to present value using a discount rate of 9%. During the second quarter of 2015, the Company received unfavorable efficacy data from a clinical trial for surotomycin. The evaluation of this data, combined with an

assessment of the commercial opportunity of surotomycin, resulted in an IPR&D impairment charge (see Note 6). In connection with the Cubist acquisition, liabilities were recorded for the potential for future consideration that is contingent upon the achievement of future sales-based milestones. The fair value of contingent consideration liabilities was determined at the acquisition date using unobservable inputs. These inputs include the estimated amount and timing of projected cash flows, the probability of success (achievement of the contingent event) and a risk-adjusted discount rate of 8% used to present value the probability-weighted cash flows. Changes in the inputs could result in a different fair value measurement.

This transaction closed on January 21, 2015; accordingly, the results of operations of the acquired business have been included in the Company's results of operations beginning after that date. Cubist contributed sales of \$329 million and \$537 million in the second quarter and first six months of 2015. The Company is no longer able to provide the results of operations attributable to Cubist during the period as the operations of Cubist have been largely integrated. During the first six months of 2015, the Company incurred \$324 million of transaction costs directly related to the acquisition of Cubist including share-based compensation

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

costs, severance costs and legal and advisory fees which are reflected in Marketing and administrative expenses. Of this amount, \$98 million was recorded in the second quarter of 2015, but should have been recorded in the period the acquisition closed.

The following unaudited supplemental pro forma data presents consolidated information as if the acquisition of Cubist had been completed on January 1, 2014:

(\$ in millions)	Three Months Ended June 30,		Six Months Ended June 30,	
	2015	2014	2015	2014
Sales	\$9,785	\$11,228	\$19,296	\$21,754
Net income attributable to Merck & Co., Inc.	764	1,787	1,811	3,086
Basic earnings per common share attributable to Merck & Co., Inc. common shareholders	0.27	0.61	0.64	1.05
Earnings per common share assuming dilution attributable to Merck & Co., Inc. common shareholders	0.27	0.61	0.63	1.04

The unaudited supplemental pro forma data reflects the historical information of Merck and Cubist adjusted to include additional amortization expense based on the fair value of assets acquired, additional interest expense that would have been incurred on borrowings used to fund the acquisition, transaction costs associated with the acquisition, and the related tax effects of these adjustments. The pro forma data should not be considered indicative of the results that would have occurred if the acquisition had been consummated on January 1, 2014, nor are they indicative of future results.

Other transactions

In February 2015, Merck and NGM Biopharmaceuticals, Inc. ("NGM"), a privately-held biotechnology company, entered into a multi-year collaboration to research, discover, develop and commercialize novel biologic therapies across a wide range of therapeutic areas. The collaboration includes multiple drug candidates currently in preclinical development at NGM, including NP201, which is being evaluated for the treatment of diabetes, obesity and nonalcoholic steatohepatitis. NGM will lead the research and development of the existing preclinical candidates and have the autonomy to identify and pursue other discovery stage programs at its discretion. Merck will have the option to license all resulting NGM programs following human proof of concept trials. If Merck exercises this option, Merck will lead global product development and commercialization for the resulting products, if approved. Under the terms of the agreement, Merck made an upfront payment to NGM of \$94 million, which is included in Research and development expenses, and purchased a 15% equity stake in NGM for \$106 million. Merck committed up to \$250 million to fund all of NGM's efforts under the initial five-year term of the collaboration, with the potential for additional funding if certain conditions are met. Prior to Merck initiating a Phase 3 study for a licensed program, NGM may elect to either receive milestone and royalty payments or, in certain cases, to co-fund development and participate in a global cost and revenue share arrangement of up to 50%. The agreement also provides NGM with the option to participate in the co-promotion of any co-funded program in the United States. Merck will have the option to extend the research agreement for two additional two-year terms. Each party has certain termination rights under the agreement in the event of an uncured material breach by the other party. Additionally, Merck has certain termination rights in the event of the occurrence of certain defined conditions. Upon a termination event, depending on the circumstances, the parties have varying rights and obligations with respect to the continued development and commercialization of compounds discovered under the agreement and certain related payment obligations.

In May 2014, Merck entered into an agreement to sell certain ophthalmic products to Santen Pharmaceutical Co., Ltd. ("Santen") in Japan and markets in Europe and Asia Pacific. The ophthalmic products included in the agreement are Cosopt (dorzolamide hydrochloride-timolol maleate ophthalmic solution), Cosopt PF (dorzolamide hydrochloride-timolol maleate ophthalmic solution) 2%/0.5%, Trusopt (dorzolamide hydrochloride ophthalmic solution) sterile ophthalmic solution 2%, Trusopt PF (dorzolamide hydrochloride ophthalmic solution) preservative-free, Timoptic (timolol maleate ophthalmic solution), Timoptic PF (timolol maleate preservative free ophthalmic solution in unit dose dispenser), Timoptic XE (timolol maleate ophthalmic gel forming solution), Saflutan (tafluprost) and Taptiqom (tafluprost-timolol maleate ophthalmic solution, in development). The agreement provides

that Santen make upfront payments and additional payments based on defined sales milestones. Santen will also purchase supply of ophthalmology products covered by the agreement for a two- to five-year period. Upon closing of the transaction in most markets on July 1, 2014, the Company received \$515 million of upfront payments from Santen, net of certain adjustments, and an additional \$50 million upon closing of the remaining markets on October 1, 2014. Merck recognized gains of \$480 million on the transactions in the second half of 2014 included in Other (income) expense, net.

In August 2014, Merck completed the acquisition of Idenix Pharmaceuticals, Inc. (“Idenix”) for approximately \$3.9 billion in cash (\$3.7 billion net of cash acquired). Idenix was a biopharmaceutical company engaged in the discovery and development of medicines for the treatment of human viral diseases, whose primary focus was on the development of next-generation oral antiviral therapeutics to treat hepatitis C virus (“HCV”) infection. The transaction was accounted for as an acquisition of a business; accordingly, the assets acquired and liabilities assumed were recorded at their respective fair values as of the acquisition date. The determination of fair value requires management to make significant estimates and assumptions. Merck

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

recognized an intangible asset for IPR&D of \$3.2 billion related to MK-3682 (formerly IDX21437), net deferred tax liabilities of \$951 million and other net assets and liabilities of approximately \$12 million. MK-3682 is a nucleotide prodrug in Phase 2 clinical development being evaluated for potential inclusion in the development of all oral, pan-genotypic fixed-dose combination regimens. The excess of the consideration transferred over the fair value of net assets acquired of \$1.5 billion was recorded as goodwill that was allocated to the Pharmaceutical segment and is not deductible for tax purposes. The fair value of the identifiable intangible asset related to IPR&D was determined using an income approach, through which fair value is estimated based upon the asset's probability-adjusted future net cash flows, which reflects the stage of development of the project and the associated probability of successful completion. The net cash flows were then discounted to present value using a discount rate of 11.5%. Actual cash flows are likely to be different than those assumed. This transaction closed on August 5, 2014; accordingly, the results of operations of the acquired business have been included in the Company's results of operations beginning after that date. Pro forma financial information has not been included because Idenix's historical financial results are not significant when compared with the Company's financial results.

In March 2014, Merck divested its Sirna Therapeutics, Inc. ("Sirna") subsidiary to Alnylam Pharmaceuticals, Inc. ("Alnylam") for consideration of \$25 million and 2,520,044 shares of Alnylam common stock. Merck is eligible to receive future payments associated with the achievement of certain regulatory and commercial milestones, as well as royalties on future sales. Under the terms of the agreement, Merck received 85% of the Alnylam shares in the first quarter of 2014 (valued at \$172 million at the time of closing) and the remaining 15% of the shares in the second quarter of 2014 (valued at \$22 million at the time the shares were received). Merck recorded gains of \$22 million and \$204 million in the second quarter and first six months of 2014, respectively, related to this transaction that are included in Other (income) expense, net. The excess of Merck's tax basis in its investment in Sirna over the value received resulted in an approximate \$300 million tax benefit recorded in the first six months of 2014.

In January 2014, Merck sold the U.S. marketing rights to Saphris (asenapine), an antipsychotic indicated for the treatment of schizophrenia and bipolar I disorder in adults to Forest Laboratories, Inc. ("Forest"). Under the terms of the agreement, Forest made upfront payments of \$232 million, which were recorded in Sales in the first six months of 2014, and will make additional payments to Merck based on defined sales milestones. In addition, as part of this transaction, Merck agreed to supply product to Forest (subsequently acquired by Allergan plc) until patent expiry. Remicade/Simponi

In 1998, a subsidiary of Schering-Plough entered into a licensing agreement with Centocor Ortho Biotech Inc. ("Centocor"), a Johnson & Johnson ("J&J") company, to market Remicade (infliximab), which is prescribed for the treatment of inflammatory diseases. In 2005, Schering-Plough's subsidiary exercised an option under its contract with Centocor for license rights to develop and commercialize Simponi (golimumab), a fully human monoclonal antibody. The Company has exclusive marketing rights to both products throughout Europe, Russia and Turkey. In December 2007, Schering-Plough and Centocor revised their distribution agreement regarding the development, commercialization and distribution of both Remicade and Simponi, extending the Company's rights to exclusively market Remicade to match the duration of the Company's exclusive marketing rights for Simponi. In addition, Schering-Plough and Centocor agreed to share certain development costs relating to Simponi's auto-injector delivery system. On October 6, 2009, the European Commission approved Simponi as a treatment for rheumatoid arthritis and other immune system disorders in two presentations – a novel auto-injector and a prefilled syringe. As a result, the Company's marketing rights for both products extend for 15 years from the first commercial sale of Simponi in the European Union (the "EU") following the receipt of pricing and reimbursement approval within the EU. Remicade lost market exclusivity in major European markets in February 2015. All profits derived from Merck's exclusive distribution of the two products in these countries are equally divided between Merck and J&J.

4. Financial Instruments

Derivative Instruments and Hedging Activities

The Company manages the impact of foreign exchange rate movements and interest rate movements on its earnings, cash flows and fair values of assets and liabilities through operational means and through the use of various financial instruments, including derivative instruments.

A significant portion of the Company's revenues and earnings in foreign affiliates is exposed to changes in foreign exchange rates. The objectives and accounting related to the Company's foreign currency risk management program, as well as its interest rate risk management activities are discussed below.

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Foreign Currency Risk Management

The Company has established revenue hedging, balance sheet risk management and net investment hedging programs to protect against volatility of future foreign currency cash flows and changes in fair value caused by volatility in foreign exchange rates.

The objective of the revenue hedging program is to reduce the potential for longer-term unfavorable changes in foreign exchange rates to decrease the U.S. dollar value of future cash flows derived from foreign currency denominated sales, primarily the euro and Japanese yen. To achieve this objective, the Company will hedge a portion of its forecasted foreign currency denominated third-party and intercompany distributor entity sales that are expected to occur over its planning cycle, typically no more than three years into the future. The Company will layer in hedges over time, increasing the portion of third-party and intercompany distributor entity sales hedged as it gets closer to the expected date of the forecasted foreign currency denominated sales. The portion of sales hedged is based on assessments of cost-benefit profiles that consider natural offsetting exposures, revenue and exchange rate volatilities and correlations, and the cost of hedging instruments. The hedged anticipated sales are a specified component of a portfolio of similarly denominated foreign currency-based sales transactions, each of which responds to the hedged currency risk in the same manner. The Company manages its anticipated transaction exposure principally with purchased local currency put options, which provide the Company with a right, but not an obligation, to sell foreign currencies in the future at a predetermined price. If the U.S. dollar strengthens relative to the currency of the hedged anticipated sales, total changes in the options' cash flows offset the decline in the expected future U.S. dollar equivalent cash flows of the hedged foreign currency sales. Conversely, if the U.S. dollar weakens, the options' value reduces to zero, but the Company benefits from the increase in the U.S. dollar equivalent value of the anticipated foreign currency cash flows.

In connection with the Company's revenue hedging program, a purchased collar option strategy may be utilized. With a purchased collar option strategy, the Company writes a local currency call option and purchases a local currency put option. As compared to a purchased put option strategy alone, a purchased collar strategy reduces the upfront costs associated with purchasing puts through the collection of premium by writing call options. If the U.S. dollar weakens relative to the currency of the hedged anticipated sales, the purchased put option value of the collar strategy reduces to zero and the Company benefits from the increase in the U.S. dollar equivalent value of its anticipated foreign currency cash flows; however, this benefit would be capped at the strike level of the written call. If the U.S. dollar strengthens relative to the currency of the hedged anticipated sales, the written call option value of the collar strategy reduces to zero and the changes in the purchased put cash flows of the collar strategy would offset the decline in the expected future U.S. dollar equivalent cash flows of the hedged foreign currency sales.

The Company may also utilize forward contracts in its revenue hedging program. If the U.S. dollar strengthens relative to the currency of the hedged anticipated sales, the increase in the fair value of the forward contracts offsets the decrease in the expected future U.S. dollar cash flows of the hedged foreign currency sales. Conversely, if the U.S. dollar weakens, the decrease in the fair value of the forward contracts offsets the increase in the value of the anticipated foreign currency cash flows.

The fair values of these derivative contracts are recorded as either assets (gain positions) or liabilities (loss positions) in the Consolidated Balance Sheet. Changes in the fair value of derivative contracts are recorded each period in either current earnings or Other comprehensive income ("OCI"), depending on whether the derivative is designated as part of a hedge transaction and, if so, the type of hedge transaction. For derivatives that are designated as cash flow hedges, the effective portion of the unrealized gains or losses on these contracts is recorded in Accumulated other comprehensive income ("AOCI") and reclassified into Sales when the hedged anticipated revenue is recognized. The hedge relationship is highly effective and hedge ineffectiveness has been de minimis. For those derivatives which are not designated as cash flow hedges, but serve as economic hedges of forecasted sales, unrealized gains or losses are recorded in Sales each period. The cash flows from both designated and non-designated contracts are reported as operating activities in the Consolidated Statement of Cash Flows. The Company does not enter into derivatives for trading or speculative purposes.

The primary objective of the balance sheet risk management program is to mitigate the exposure of foreign currency denominated net monetary assets of foreign subsidiaries where the U.S. dollar is the functional currency from the

effects of volatility in foreign exchange. In these instances, Merck principally utilizes forward exchange contracts, which enable the Company to buy and sell foreign currencies in the future at fixed exchange rates and economically offset the consequences of changes in foreign exchange from the monetary assets. Merck routinely enters into contracts to offset the effects of exchange on exposures denominated in developed country currencies, primarily the euro and Japanese yen. For exposures in developing country currencies, the Company will enter into forward contracts to partially offset the effects of exchange on exposures when it is deemed economical to do so based on a cost-benefit analysis that considers the magnitude of the exposure, the volatility of the exchange rate and the cost of the hedging instrument. The Company will also minimize the effect of exchange on monetary assets and liabilities by managing operating activities and net asset positions at the local level. The cash flows from these contracts are reported as operating activities in the Consolidated Statement of Cash Flows.

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Monetary assets and liabilities denominated in a currency other than the functional currency of a given subsidiary are remeasured at spot rates in effect on the balance sheet date with the effects of changes in spot rates reported in Other (income) expense, net. The forward contracts are not designated as hedges and are marked to market through Other (income) expense, net. Accordingly, fair value changes in the forward contracts help mitigate the changes in the value of the remeasured assets and liabilities attributable to changes in foreign currency exchange rates, except to the extent of the spot-forward differences. These differences are not significant due to the short-term nature of the contracts, which typically have average maturities at inception of less than one year.

The Company also uses forward exchange contracts to hedge its net investment in foreign operations against movements in exchange rates. The forward contracts are designated as hedges of the net investment in a foreign operation. The Company hedges a portion of the net investment in certain of its foreign operations and measures ineffectiveness based upon changes in spot foreign exchange rates. The effective portion of the unrealized gains or losses on these contracts is recorded in foreign currency translation adjustment within OCI, and remains in AOCI until either the sale or complete or substantially complete liquidation of the subsidiary. The cash flows from these contracts are reported as investing activities in the Consolidated Statement of Cash Flows.

Foreign exchange risk is also managed through the use of foreign currency debt. The Company's senior unsecured euro-denominated notes have been designated as, and are effective as, economic hedges of the net investment in a foreign operation. Accordingly, foreign currency transaction gains or losses due to spot rate fluctuations on the euro-denominated debt instruments are included in foreign currency translation adjustment within OCI. Included in the cumulative translation adjustment are pretax gains of \$247 million and \$34 million for the first six months of 2015 and 2014, respectively, from the euro-denominated notes.

Interest Rate Risk Management

The Company may use interest rate swap contracts on certain investing and borrowing transactions to manage its net exposure to interest rate changes and to reduce its overall cost of borrowing. The Company does not use leveraged swaps and, in general, does not leverage any of its investment activities that would put principal capital at risk.

At June 30, 2015, the Company was a party to 30 pay-floating, receive-fixed interest rate swap contracts designated as fair value hedges of fixed-rate notes in which the notional amounts match the amount of the hedged fixed-rate notes as detailed in the table below.

Debt Instrument	June 30, 2015		
	Par Value of Debt	Number of Interest Rate Swaps Held	Total Swap Notional Amount
0.70% notes due 2016	\$ 1,000	4	\$ 1,000
1.30% notes due 2018	1,000	4	1,000
5.00% notes due 2019	1,250	3	550
1.85% notes due 2020	1,250	5	1,250
3.875% notes due 2021	1,150	5	1,150
2.40% notes due 2022	1,000	4	1,000
2.35% notes due 2022	1,250	5	1,250

The interest rate swap contracts are designated hedges of the fair value changes in the notes attributable to changes in the benchmark London Interbank Offered Rate ("LIBOR") swap rate. The fair value changes in the notes attributable to changes in the LIBOR are recorded in interest expense and offset by the fair value changes in the swap contracts. The cash flows from these contracts are reported as operating activities in the Consolidated Statement of Cash Flows.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Presented in the table below is the fair value of derivatives on a gross basis segregated between those derivatives that are designated as hedging instruments and those that are not designated as hedging instruments:

(\$ in millions)	Balance Sheet Caption	June 30, 2015			December 31, 2014		
		Fair Value of Derivative U.S. Dollar			Fair Value of Derivative U.S. Dollar		
		Asset	Liability	Notional	Asset	Liability	Notional
Derivatives Designated as Hedging Instruments							
Interest rate swap contracts (current)	Deferred income taxes and other current assets	\$ 1	\$—	\$ 1,000	\$—	\$—	\$ —
Interest rate swap contracts (non-current)	Other assets	20	—	1,950	19	—	1,950
Interest rate swap contracts (non-current)	Other noncurrent liabilities	—	48	4,250	—	15	2,000
Foreign exchange contracts (current)	Deferred income taxes and other current assets	836	—	5,540	772	—	5,513
Foreign exchange contracts (non-current)	Other assets	638	—	5,470	691	—	6,253
Foreign exchange contracts (current)	Accrued and other current liabilities	—	1	84	—	—	—
		\$ 1,495	\$ 49	\$ 18,294	\$ 1,482	\$ 15	\$ 15,716
Derivatives Not Designated as Hedging Instruments							
Foreign exchange contracts (current)	Deferred income taxes and other current assets	\$ 132	\$—	\$ 4,159	\$ 365	\$—	\$ 6,966
Foreign exchange contracts (current)	Accrued and other current liabilities	—	96	4,406	—	88	3,386
		\$ 132	\$ 96	\$ 8,565	\$ 365	\$ 88	\$ 10,352
		\$ 1,627	\$ 145	\$ 26,859	\$ 1,847	\$ 103	\$ 26,068

As noted above, the Company records its derivatives on a gross basis in the Consolidated Balance Sheet. The Company has master netting agreements with several of its financial institution counterparties (see Concentrations of Credit Risk below). The following table provides information on the Company's derivative positions subject to these master netting arrangements as if they were presented on a net basis, allowing for the right of offset by counterparty and cash collateral exchanged per the master agreements and related credit support annexes:

(\$ in millions)	June 30, 2015		December 31, 2014	
	Asset	Liability	Asset	Liability
Gross amounts recognized in the consolidated balance sheet	\$ 1,627	\$ 145	\$ 1,847	\$ 103
Gross amount subject to offset in master netting arrangements not offset in the consolidated balance sheet	(116)	(116)	(97)	(97)
Cash collateral (received) posted	(1,214)	—	(1,410)	—
Net amounts	\$ 297	\$ 29	\$ 340	\$ 6

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

The table below provides information on the location and pretax gain or loss amounts for derivatives that are: (i) designated in a fair value hedging relationship, (ii) designated in a foreign currency cash flow hedging relationship, (iii) designated in a foreign currency net investment hedging relationship and (iv) not designated in a hedging relationship:

	Three Months Ended June 30,		Six Months Ended June 30,	
(\$ in millions)	2015	2014	2015	2014
Derivatives designated in a fair value hedging relationship				
Interest rate swap contracts				
Amount of loss (gain) recognized in Other (income) expense, net on derivatives ⁽¹⁾	\$57	\$(17)	\$32	\$(21)
Amount of (gain) loss recognized in Other (income) expense, net on hedged item ⁽¹⁾	(56)	16	(34)	20
Derivatives designated in foreign currency cash flow hedging relationships				
Foreign exchange contracts				
Amount of gain reclassified from AOCI to Sales	(191)	(4)	(358)	(2)
Amount of loss (gain) recognized in OCI on derivatives	84	55	(481)	157
Derivatives designated in foreign currency net investment hedging relationships				
Foreign exchange contracts				
Amount of gain recognized in Other (income) expense, net on derivatives ⁽²⁾	(2)	(1)	(3)	(3)
Amount of (gain) loss recognized in OCI on derivatives	(26)	7	(18)	50
Derivatives not designated in a hedging relationship				
Foreign exchange contracts				
Amount of loss (gain) recognized in Other (income) expense, net on derivatives ⁽³⁾	43	59	(205)	(23)
Amount of gain recognized in Sales	—	—	(1)	—

⁽¹⁾ There was \$1 million and \$2 million of ineffectiveness on the hedge during the second quarter and first six months of 2015.

⁽²⁾ There was no ineffectiveness on the hedge. Represents the amount excluded from hedge effectiveness testing.

⁽³⁾ These derivative contracts mitigate changes in the value of remeasured foreign currency denominated monetary assets and liabilities attributable to changes in foreign currency exchange rates.

At June 30, 2015, the Company estimates \$584 million of pretax net unrealized gains on derivatives maturing within the next 12 months that hedge foreign currency denominated sales over that same period will be reclassified from AOCI to Sales. The amount ultimately reclassified to Sales may differ as foreign exchange rates change. Realized gains and losses are ultimately determined by actual exchange rates at maturity.

Investments in Debt and Equity Securities

Information on available-for-sale investments is as follows:

	June 30, 2015				December 31, 2014			
(\$ in millions)	Fair Value	Amortized Cost	Gross Gains	Unrealized Losses	Fair Value	Amortized Cost	Gross Gains	Unrealized Losses
Corporate notes and bonds	\$10,630	\$10,616	\$26	\$(12)	\$10,107	\$10,102	\$22	\$(17)
Commercial paper	2,653	2,653	—	—	6,970	6,970	—	—
U.S. government and agency securities	1,616	1,614	3	(1)	1,774	1,775	1	(2)
Asset-backed securities	1,344	1,343	2	(1)	1,460	1,462	1	(3)

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Mortgage-backed securities	728	725	5	(2	)	602	604	2	(4	)
Foreign government bonds	376	375	1	—		385	385	—	—	
Equity securities	641	455	186	—		730	557	173	—	
	\$17,988	\$ 17,781	\$223	\$(16	)	\$22,028	\$ 21,855	\$199	\$(26	)

Available-for-sale debt securities included in Short-term investments totaled \$4.3 billion at June 30, 2015. Of the remaining debt securities, \$12.1 billion mature within five years. At June 30, 2015 and December 31, 2014, there were no debt securities pledged as collateral.

Fair Value Measurements

Fair value is defined as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. The Company uses a fair value hierarchy which maximizes the use of observable inputs and minimizes the use of unobservable inputs when measuring fair value. There are three levels of inputs used to measure fair value with Level 1 having the highest priority and Level 3 having the lowest:

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Level 1 - Quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 - Observable inputs other than Level 1 prices, such as quoted prices for similar assets or liabilities, or other inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 - Unobservable inputs that are supported by little or no market activity. Level 3 assets or liabilities are those whose values are determined using pricing models, discounted cash flow methodologies, or similar techniques with significant unobservable inputs, as well as assets or liabilities for which the determination of fair value requires significant judgment or estimation.

If the inputs used to measure the financial assets and liabilities fall within more than one level described above, the categorization is based on the lowest level input that is significant to the fair value measurement of the instrument.

Financial Assets and Liabilities Measured at Fair Value on a Recurring Basis

Financial assets and liabilities measured at fair value on a recurring basis are summarized below:

	Fair Value Measurements Using				Fair Value Measurements Using			
	Quoted Prices In Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total	Quoted Prices In Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total
(\$ in millions)	June 30, 2015				December 31, 2014			
Assets								
Investments								
Corporate notes and bonds	\$—	\$ 10,630	\$ —	\$10,630	\$—	\$ 10,107	\$ —	\$10,107
Commercial paper	—	2,653	—	2,653	—	6,970	—	6,970
U.S. government and agency securities	—	1,616	—	1,616	—	1,774	—	1,774
Asset-backed securities ⁽¹⁾	—	1,344	—	1,344	—	1,460	—	1,460
Mortgage-backed securities ⁽¹⁾	—	728	—	728	—	602	—	602
Foreign government bonds	—	376	—	376	—	385	—	385
Equity securities	434	—	—	434	495	—	—	495
	434	17,347	—	17,781	495	21,298	—	21,793
Other assets								
Securities held for employee compensation	185	22	—	207	181	54	—	235
Derivative assets ⁽²⁾								
Purchased currency options	—	1,340	—	1,340	—	1,252	—	1,252
Forward exchange contracts	—	266	—	266	—	576	—	576
Interest rate swaps	—	21	—	21	—	19	—	19
	—	1,627	—	1,627	—	1,847	—	1,847
Total assets	\$619	\$ 18,996	\$ —	\$19,615	\$676	\$ 23,199	\$ —	\$23,875
Liabilities								
Other liabilities	\$—	\$ —	\$ 577	\$577	\$—	\$ —	\$ 428	\$428

Contingent
consideration
Derivative liabilities
(2)

Forward exchange contracts	—	97	—	97	—	46	—	46
Written currency options	—	—	—	—	—	42	—	42
Interest rate swaps	—	48	—	48	—	15	—	15
	—	145	—	145	—	103	—	103
Total liabilities	\$—	\$ 145	\$ 577	\$722	\$—	\$ 103	\$ 428	\$531

- Primarily all of the asset-backed securities are highly-rated (Standard & Poor's rating of AAA and Moody's Investors Service rating of Aaa), secured primarily by credit card, auto loan, and home equity receivables, with weighted-average lives of primarily 5 years or less. Mortgage-backed securities represent AAA-rated securities issued or unconditionally guaranteed as to payment of principal and interest by U.S. government agencies.
- (2) The fair value determination of derivatives includes the impact of the credit risk of counterparties to the derivatives and the Company's own credit risk, the effects of which were not significant.

There were no transfers between Level 1 and Level 2 during the first six months of 2015. As of June 30, 2015, Cash and cash equivalents of \$6.9 billion included \$5.9 billion of cash equivalents (considered Level 2 in the fair value hierarchy).

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Contingent Consideration

Summarized information about the changes in liabilities for contingent consideration is as follows:

	Six Months Ended June 30,	
(\$ in millions)	2015	2014
Fair value January 1	\$428	\$69
Changes in fair value ⁽¹⁾	76	4
Additions	123	—
Payments	(50)	—
Fair value June 30	\$577	\$73

⁽¹⁾ Recorded in Research and development expenses and Materials and production costs.

In the first six months of 2015, the Company recognized a liability of \$123 million for contingent consideration related to the acquisition of Cubist (see Note 3). In addition, in the first six months of 2015, the Company paid \$50 million of contingent consideration related to the first commercial sale of Zerbaxa in the United States.

Other Fair Value Measurements

Some of the Company's financial instruments, such as cash and cash equivalents, receivables and payables, are reflected in the balance sheet at carrying value, which approximates fair value due to their short-term nature.

The estimated fair value of loans payable and long-term debt (including current portion) at June 30, 2015, was \$26.9 billion compared with a carrying value of \$26.6 billion and at December 31, 2014, was \$22.5 billion compared with a carrying value of \$21.4 billion. Fair value was estimated using recent observable market prices and would be considered Level 2 in the fair value hierarchy.

Concentrations of Credit Risk

On an ongoing basis, the Company monitors concentrations of credit risk associated with corporate and government issuers of securities and financial institutions with which it conducts business. Credit exposure limits are established to limit a concentration with any single issuer or institution. Cash and investments are placed in instruments that meet high credit quality standards as specified in the Company's investment policy guidelines.

The majority of the Company's accounts receivable arise from product sales in the United States and Europe and are primarily due from drug wholesalers and retailers, hospitals, government agencies, managed health care providers and pharmacy benefit managers. The Company monitors the financial performance and creditworthiness of its customers so that it can properly assess and respond to changes in their credit profile. The Company also continues to monitor economic conditions, including the volatility associated with international sovereign economies, and associated impacts on the financial markets and its business, taking into consideration global economic conditions and the ongoing sovereign debt issues in certain European countries. At June 30, 2015 and December 31, 2014, Other assets included \$50 million and \$80 million, respectively, of accounts receivable not expected to be collected within one year. At June 30, 2015, the Company's total net accounts receivable outstanding for more than one year were approximately \$120 million. The Company does not expect to have write-offs or adjustments to accounts receivable which would have a material adverse effect on its financial position, liquidity or results of operations.

Additionally, the Company continues to expand in the emerging markets. Payment terms in these markets tend to be longer, resulting in an increase in accounts receivable balances in certain of these markets.

Derivative financial instruments are executed under International Swaps and Derivatives Association master agreements. The master agreements with several of the Company's financial institution counterparties also include credit support annexes. These annexes contain provisions that require collateral to be exchanged depending on the value of the derivative assets and liabilities, the Company's credit rating, and the credit rating of the counterparty. As of June 30, 2015 and December 31, 2014, the Company had received cash collateral of \$1.2 billion and \$1.4 billion, respectively, from various counterparties and the obligation to return such collateral is recorded in Accrued and other current liabilities. The Company had not advanced any cash collateral to counterparties as of June 30, 2015 or December 31, 2014.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

5. Inventories

Inventories consisted of:

(\$ in millions)	June 30, 2015	December 31, 2014
Finished goods	\$1,497	\$1,588
Raw materials and work in process	5,005	5,141
Supplies	182	197
Total (approximates current cost)	6,684	6,926
Increase to LIFO costs	346	309
	\$7,030	\$7,235

Recognized as:

Inventories	\$5,306	\$5,571
Other assets	1,724	1,664

Amounts recognized as Other assets are comprised almost entirely of raw materials and work in process inventories. At both June 30, 2015 and December 31, 2014, these amounts included \$1.6 billion of inventories not expected to be sold within one year. In addition, these amounts included \$75 million and \$74 million at June 30, 2015 and December 31, 2014, respectively, of inventories produced in preparation for product launches.

6. Goodwill and Other Intangibles

In connection with acquisitions, the Company measures the fair value of marketed products and research and development pipeline programs and capitalizes these amounts. As a result of the acquisition of Cubist in January 2015, the Company recorded \$6.9 billion of intangible assets for currently marketed products, \$50 million of IPR&D (related to surotomycin) and \$4.6 billion of goodwill (see Note 3).

During the second quarter and first six months of 2015, the Company recorded \$59 million and \$61 million, respectively, of IPR&D impairment charges within Research and development expenses. Of these amounts, \$50 million relates to the surotomycin clinical development program obtained in connection with the acquisition of Cubist. During the second quarter of 2015, the Company received unfavorable efficacy data from a clinical trial for surotomycin. The evaluation of this data, combined with an assessment of the commercial opportunity of surotomycin, resulted in the IPR&D impairment charge noted above.

Also, during the first six months of 2015, the Company recorded an intangible asset impairment charge of \$12 million within Materials and production costs related to Rebetol (ribavirin USP), a product marketed by the Company for the treatment of chronic HCV infection. Sales of Rebetol are being adversely affected by loss of market share as a result of the availability of newer therapeutic options, which led to changes in the cash flow assumptions for Rebetol that indicated that the Rebetol intangible asset value was not recoverable on an undiscounted cash flows basis. The Company utilized market participant assumptions to determine its best estimate of the fair value of the intangible asset related to Rebetol that, when compared with its related carrying value, resulted in the impairment charge noted above. During the second quarter and first six months of 2014, the Company recorded intangible asset impairment charges of \$660 million within Materials and Production costs related to certain products marketed by the Company for the treatment of chronic HCV infection. Of this amount, \$523 million related to PegIntron (peginterferon alpha-2b) and \$137 million related to Victrelis (boceprevir). Sales of PegIntron and Victrelis were adversely affected by loss of market share or patient treatment delays in markets anticipating the availability of new therapeutic options. During the second quarter of 2014, these trends accelerated more rapidly than previously anticipated by the Company, which led to changes in the cash flow assumptions for both PegIntron and Victrelis. These revisions to cash flows indicated that the PegIntron and Victrelis intangible asset values were not recoverable on an undiscounted cash flows basis. The Company utilized market participant assumptions to determine its best estimate of the fair values of the intangible assets related to PegIntron and Victrelis that, when compared with their related carrying values, resulted in the impairment charges noted above.

The Company may recognize additional non-cash impairment charges in the future related to other pipeline programs or marketed products and such charges could be material.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

7. Joint Ventures and Other Equity Method Affiliates

Equity income from affiliates reflects the performance of the Company's joint ventures and other equity method affiliates including Sanofi Pasteur MSD, certain investments funds, as well as AstraZeneca LP ("AZLP") until the termination of the Company's relationship with AZLP on June 30, 2014 as discussed below. Equity income from affiliates was \$2 million and \$92 million for the second quarter of 2015 and 2014, respectively, and \$147 million and \$217 million for the first six months of 2015 and 2014, respectively, and is included in Other (income) expense, net (see Note 13).

AstraZeneca LP

In 1998, Merck and Astra completed the restructuring of the ownership and operations of their existing joint venture whereby Merck acquired Astra's interest in KBI Inc. ("KBI") and contributed KBI's operating assets to a new U.S. limited partnership, Astra Pharmaceuticals L.P. (the "Partnership"), in exchange for a 1% limited partner interest. Astra contributed the net assets of its wholly owned subsidiary, Astra USA, Inc., to the Partnership in exchange for a 99% general partner interest. The Partnership, renamed AZLP upon Astra's 1999 merger with Zeneca Group Plc, became the exclusive distributor of the products for which KBI retained rights.

On June 30, 2014, AstraZeneca exercised its option to purchase Merck's interest in KBI for \$419 million in cash. Of this amount, \$327 million reflects an estimate of the fair value of Merck's interest in Nexium and Prilosec. This portion of the exercise price, which is subject to a true-up in 2018 based on actual sales from closing in 2014 to June 2018, was deferred and is being recognized over time in Other (income) expense, net as the contingency is eliminated as sales occur. During the second quarter and first six months of 2015, \$54 million and \$103 million, respectively, of the deferred income was recognized in Other income (expense), net bringing the total deferred income recognized through June 30, 2015 to \$243 million. The remaining exercise price of \$91 million primarily represents a multiple of ten times Merck's average 1% annual profit allocation in the partnership for the three years prior to exercise. Merck recognized the \$91 million as a gain in the second quarter of 2014 within Other (income) expense, net. As a result of AstraZeneca's option exercise, the Company's remaining interest in AZLP was redeemed. Accordingly, the Company also recognized a non-cash gain of approximately \$650 million in the second quarter of 2014 within Other (income) expense, net resulting from the retirement of \$2.4 billion of KBI preferred stock (see Note 10), the elimination of the Company's \$1.4 billion investment in AZLP and a \$340 million reduction of goodwill. This transaction resulted in a net tax benefit of \$517 million in the second quarter of 2014 primarily reflecting the reversal of deferred taxes on the AZLP investment balance.

As a result of AstraZeneca exercising its option, as of July 1, 2014, the Company no longer records equity income from AZLP and supply sales to AZLP have terminated. Equity income from AZLP was \$94 million and \$192 million for the second quarter and first six months of 2014, respectively.

Summarized financial information for AZLP is as follows:

	Three Months Ended June 30, 2014	Six Months Ended June 30, 2014
(\$ in millions)		
Sales	\$1,123	\$2,205
Materials and production costs	581	1,044
Other expense, net	194	604
Income before taxes ⁽¹⁾	\$348	\$557

⁽¹⁾ Merck's partnership returns from AZLP were generally contractually determined as noted above and were not based on a percentage of income from AZLP, other than with respect to Merck's 1% limited partnership interest.

8. Long-Term Debt

In February 2015, Merck issued \$8.0 billion aggregate principal amount of senior unsecured notes consisting of \$300 million principal amount of floating rate notes due 2017, \$700 million principal amount of floating rate notes due 2020, \$1.25 billion principal amount of 1.85% notes due 2020, \$1.25 billion aggregate principal amount of 2.35% notes due 2022, \$2.5 billion aggregate principal amount of 2.75% notes due 2025 and \$2.0 billion aggregate principal amount of 3.70% notes due 2045. The Company used a portion of the net proceeds of the offering of \$7.9 billion to

repay commercial paper issued to substantially finance the Company's acquisition of Cubist. Any remaining net proceeds were used for general corporate purposes, including for repurchases of the Company's common stock, and the repayment of outstanding commercial paper borrowings and debt maturities.

Also, in February 2015, the Company redeemed \$1.9 billion of legacy Cubist debt acquired in the acquisition (see Note 3).

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

9. Contingencies

The Company is involved in various claims and legal proceedings of a nature considered normal to its business, including product liability, intellectual property, and commercial litigation, as well as certain additional matters including environmental matters. Except for the Vioxx Litigation (as defined below) for which a separate assessment is provided in this Note, in the opinion of the Company, it is unlikely that the resolution of these matters will be material to the Company's financial position, results of operations or cash flows.

Given the nature of the litigation discussed below, including the Vioxx Litigation, and the complexities involved in these matters, the Company is unable to reasonably estimate a possible loss or range of possible loss for such matters until the Company knows, among other factors, (i) what claims, if any, will survive dispositive motion practice, (ii) the extent of the claims, including the size of any potential class, particularly when damages are not specified or are indeterminate, (iii) how the discovery process will affect the litigation, (iv) the settlement posture of the other parties to the litigation and (v) any other factors that may have a material effect on the litigation.

The Company records accruals for contingencies when it is probable that a liability has been incurred and the amount can be reasonably estimated. These accruals are adjusted periodically as assessments change or additional information becomes available. For product liability claims, a portion of the overall accrual is actuarially determined and considers such factors as past experience, number of claims reported and estimates of claims incurred but not yet reported.

Individually significant contingent losses are accrued when probable and reasonably estimable. Legal defense costs expected to be incurred in connection with a loss contingency are accrued when probable and reasonably estimable.

The Company's decision to obtain insurance coverage is dependent on market conditions, including cost and availability, existing at the time such decisions are made. The Company has evaluated its risks and has determined that the cost of obtaining product liability insurance outweighs the likely benefits of the coverage that is available and, as such, has no insurance for certain product liabilities effective August 1, 2004.

Vioxx Litigation

Product Liability Lawsuits

As previously disclosed, Merck is a defendant in approximately 20 active federal and state lawsuits (the "Vioxx Product Liability Lawsuits") alleging personal injury as a result of the use of Vioxx. Most of these cases are coordinated in a multidistrict litigation in the U.S. District Court for the Eastern District of Louisiana (the "Vioxx MDL") before Judge Eldon E. Fallon.

As previously disclosed, Merck is also a defendant in approximately 30 putative class action lawsuits alleging economic injury as a result of the purchase of Vioxx. All but one of those cases are in the Vioxx MDL. Merck has reached a resolution, approved by Judge Fallon, of these class actions in the Vioxx MDL. Under the settlement, Merck will pay up to \$23 million to pay all properly documented claims submitted by class members, approved attorneys' fees and expenses, and approved settlement notice costs and certain other administrative expenses. The court entered an order approving the settlement in January 2014 and the claims review process was recently completed.

Merck is also a defendant in lawsuits brought by state Attorneys General of three states — Alaska, Montana and Utah. These actions were previously pending in the Vioxx MDL proceeding, but on October 10, 2014, the Judicial Panel on Multidistrict Litigation ("JPML") issued an order remanding the actions back to their original federal courts. These actions allege that Merck misrepresented the safety of Vioxx and seek recovery for expenditures on Vioxx by government-funded health care programs, such as Medicaid, and/or penalties for alleged Consumer Fraud Act violations. On February 6, 2015, the federal district judge in Anchorage remanded the Alaska lawsuit to state court and a trial has been scheduled for January 2017. On February 24, 2015, the federal district judge in Helena remanded the Montana lawsuit to state court and a trial has been scheduled for September 2016. On July 28, 2015, the Utah lawsuit was remanded to Utah state court.

Shareholder Lawsuits

As previously disclosed, in addition to the Vioxx Product Liability Lawsuits, various putative class actions and individual lawsuits under federal securities laws and state laws have been filed against Merck and various current and former officers and directors (the "Vioxx Securities Lawsuits"). The Vioxx Securities Lawsuits are coordinated in a multidistrict litigation in the U.S. District Court for the District of New Jersey before Judge Stanley R. Chesler, and have been consolidated for all purposes. In August 2011, Judge Chesler granted in part and denied in part Merck's

motion to dismiss the Fifth Amended Class Action Complaint in the consolidated securities action. Among other things, the claims based on statements made on or after the voluntary withdrawal of Vioxx on September 30, 2004, have been dismissed. In October 2011, defendants answered the Fifth Amended Class Action Complaint. In April 2012, plaintiffs filed a motion for class certification and, in January 2013, Judge Chesler granted that motion. In March 2013, plaintiffs filed a motion for leave to amend their complaint to add certain allegations to expand the class period. In May 2013, the court denied plaintiffs' motion for leave to amend their complaint to expand the class period, but granted plaintiffs' leave to amend their complaint to add certain allegations within the existing class period. In June 2013, plaintiffs filed their Sixth

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Amended Class Action Complaint. In July 2013, defendants answered the Sixth Amended Class Action Complaint. Discovery has been completed and is now closed. On May 13, 2015, the court granted in part and denied in part defendants' motions for summary judgment; the court granted judgment in defendants' favor on five of the alleged misstatements, including all statements prior to March 27, 2000, but denied the motion with respect to the remaining statements. The trial in this matter is currently scheduled to begin on October 6, 2015. There is a conference scheduled for August 11, 2015 before Judge Chesler to discuss the trial date.

As previously disclosed, several individual securities lawsuits filed by foreign institutional investors also are consolidated with the Vioxx Securities Lawsuits. In October 2011, plaintiffs filed amended complaints in each of the pending individual securities lawsuits. Also in October 2011, an individual securities lawsuit (the "KBC Lawsuit," together with the prior individual actions, the "Direct Actions") was filed in the District of New Jersey by several foreign institutional investors; that case is also consolidated with the Vioxx Securities Lawsuits. In January 2012, defendants filed motions to dismiss in one of the individual lawsuits (the "ABP Lawsuit"). Briefing on the motions to dismiss was completed in March 2012. In August 2012, Judge Chesler granted in part and denied in part the motions to dismiss the ABP Lawsuit. Among other things, certain alleged misstatements and omissions were dismissed as inactionable and all state law claims were dismissed in full. In September 2012, defendants answered the complaints in all of the Direct Actions other than the KBC Lawsuit; on the same day, defendants moved to dismiss the complaint in the KBC Lawsuit on statute of limitations grounds. In December 2012, Judge Chesler denied the motion to dismiss the KBC Lawsuit and, in January 2013, defendants answered the complaint in the KBC Lawsuit. Discovery has been completed in the Direct Actions and is now closed. On June 19, 2015, the court granted in part and denied in part defendants' motions for summary judgment; the court granted judgment in defendants' favor with respect to the same statements as in the class action and granted judgment in defendants' favor on the claims of certain plaintiff funds that did not suffer any losses, but otherwise denied the motion. The court has ordered certain of the Direct Action plaintiffs to amend their complaints to properly allege their purchases of Merck securities. Between March 2014 and February 2015, six additional individual securities complaints were filed by institutional investors that opted out of the class action referred to above. The new complaints are substantially similar to the complaints in the Direct Actions and are consolidated with the Vioxx Securities Lawsuits. Discovery in those actions is ongoing. The Company expects that the trial of these actions will be consolidated with the class action.

Insurance

The Company has Directors and Officers insurance coverage applicable to the Vioxx Securities Lawsuits with remaining stated upper limits of approximately \$145 million. As a result of the previously disclosed insurance arbitration, additional insurance coverage for these claims should also be available, if needed, under upper-level excess policies that provide coverage for a variety of risks. There are disputes with the insurers about the availability of some or all of the Company's insurance coverage for these claims and there are likely to be additional disputes. The amounts actually recovered under the policies discussed in this paragraph may be less than the stated upper limits.

International Lawsuits

As previously disclosed, in addition to the lawsuits discussed above, Merck has been named as a defendant in litigation relating to Vioxx in Brazil, Canada and Europe (collectively, the "Vioxx International Lawsuits"). As previously disclosed, the Company has entered into an agreement to resolve all claims related to Vioxx in Canada pursuant to which the Company will pay a minimum of approximately \$21 million but not more than an aggregate maximum of approximately \$36 million. The agreement has been approved by courts in Canada's provinces.

Reserves

The Company believes that it has meritorious defenses to the remaining Vioxx Product Liability Lawsuits, Vioxx Securities Lawsuits and Vioxx International Lawsuits (collectively, the "Vioxx Litigation") and will vigorously defend against them. In view of the inherent difficulty of predicting the outcome of litigation, particularly where there are many claimants and the claimants seek indeterminate damages, the Company is unable to predict the outcome of these matters and, at this time, cannot reasonably estimate the possible loss or range of loss with respect to the remaining Vioxx Litigation. The Company has established a reserve with respect to the Canadian settlement and certain other Vioxx Product Liability Lawsuits. The Company also has an immaterial remaining reserve relating to the previously disclosed Vioxx investigation for the non-participating states with which litigation is continuing. The Company has

established no other liability reserves with respect to the Vioxx Litigation. Unfavorable outcomes in the Vioxx Litigation could have a material adverse effect on the Company's financial position, liquidity and results of operations.

Other Product Liability Litigation

Fosamax

As previously disclosed, Merck is a defendant in product liability lawsuits in the United States involving Fosamax (the "Fosamax Litigation"). As of June 30, 2015, approximately 5,230 cases had been filed and were pending against Merck in either federal or state court, including one case which seeks class action certification, as well as damages and/or medical monitoring. In approximately 580 of these actions, plaintiffs allege, among other things, that they have suffered osteonecrosis of the jaw ("ONJ"),

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

generally subsequent to invasive dental procedures, such as tooth extraction or dental implants and/or delayed healing, in association with the use of Fosamax; however, substantially all of those actions are subject to the settlement discussed below. In addition, plaintiffs in approximately 4,650 of these actions generally allege that they sustained femur fractures and/or other bone injuries (“Femur Fractures”) in association with the use of Fosamax.

Cases Alleging ONJ and/or Other Jaw Related Injuries

In August 2006, the JPML ordered that certain Fosamax product liability cases pending in federal courts nationwide should be transferred and consolidated into one multidistrict litigation (the “Fosamax ONJ MDL”) for coordinated pre-trial proceedings.

In December 2013, Merck reached an agreement in principle with the Plaintiffs’ Steering Committee (“PSC”) in the Fosamax ONJ MDL to resolve pending ONJ cases not on appeal in the Fosamax ONJ MDL and in the state courts for an aggregate amount of \$27.7 million. Merck and the PSC subsequently formalized the terms of this agreement in a Master Settlement Agreement (“ONJ Master Settlement Agreement”) that was executed in April 2014. As a condition to the settlement, 100% of the state and federal ONJ plaintiffs had to agree to participate in the settlement plan or Merck could either terminate the ONJ Master Settlement Agreement, or waive the 100% participation requirement and agree to a lesser funding amount for the settlement fund. On July 14, 2014, Merck elected to proceed with the ONJ Master Settlement Agreement at a reduced funding level since the participation level was approximately 95%. In addition, the judge overseeing the Fosamax ONJ MDL granted a motion filed by Merck and has entered an order that requires the approximately 40 non-participants whose cases will remain in the Fosamax ONJ MDL once the settlement is complete to submit expert reports in order for their cases to proceed any further. The ONJ Master Settlement Agreement has no effect on the cases alleging Femur Fractures discussed below.

Cases Alleging Femur Fractures

In March 2011, Merck submitted a Motion to Transfer to the JPML seeking to have all federal cases alleging Femur Fractures consolidated into one multidistrict litigation for coordinated pre-trial proceedings. The Motion to Transfer was granted in May 2011, and all federal cases involving allegations of Femur Fracture have been or will be transferred to a multidistrict litigation in the District of New Jersey (the “Femur Fracture MDL”). Judge Pisano presided over the Femur Fracture MDL until March 10, 2015, at which time the Femur Fracture MDL was reassigned from Judge Pisano to Judge Freda L. Wolfson following Judge Pisano’s retirement. In the only bellwether case tried to date in the Femur Fracture MDL, Glynn v. Merck, the jury returned a verdict in Merck’s favor. In addition, on June 27, 2013, the Femur Fracture MDL court granted Merck’s motion for judgment as a matter of law in the Glynn case and held that the plaintiff’s failure to warn claim was preempted by federal law.

In August 2013, the Femur Fracture MDL court entered an order requiring plaintiffs in the Femur Fracture MDL to show cause why those cases asserting claims for a femur fracture injury that took place prior to September 14, 2010, should not be dismissed based on the court’s preemption decision in the Glynn case. Pursuant to the show cause order, on March 26, 2014, the Femur Fracture MDL court dismissed with prejudice approximately 650 cases on preemption grounds. Plaintiffs in approximately 500 of those cases are appealing that decision to the U.S. Court of Appeals for the Third Circuit. In June 2015, the Femur Fracture MDL court dismissed without prejudice another approximately 520 cases pending plaintiffs’ appeal of the preemption ruling to the Third Circuit.

As of June 30, 2015, approximately 1,040 cases were pending in the Femur Fracture MDL including the 500 cases dismissed with prejudice on preemption grounds which are pending appeal and the 520 cases dismissed without prejudice.

On June 17, 2014, Judge Pisano granted Merck summary judgment in the Gaynor v. Merck case and found that Merck’s updates in January 2011 to the Fosamax label regarding atypical femur fractures were adequate as a matter of law and that Merck adequately communicated those changes. The plaintiffs in Gaynor have appealed Judge Pisano’s decision to the Third Circuit. In August 2014, Merck filed a motion requesting that Judge Pisano enter a further order requiring all plaintiffs in the Femur Fracture MDL who claim that the 2011 Fosamax label is inadequate and the proximate cause of their alleged injuries to show cause why their cases should not be dismissed based on the court’s preemption decision and its ruling in the Gaynor case. In November 2014, the court granted Merck’s motion and entered the requested show cause order.

As of June 30, 2015, approximately 3,095 cases alleging Femur Fractures have been filed in New Jersey state court and are pending before Judge Jessica Mayer in Middlesex County. The parties selected an initial group of 30 cases to be reviewed through fact discovery. Two additional groups of 50 cases each to be reviewed through fact discovery were selected in November 2013 and March 2014, respectively.

As of June 30, 2015, approximately 510 cases alleging Femur Fractures have been filed in California state court. A petition was filed seeking to coordinate all Femur Fracture cases filed in California state court before a single judge in Orange County, California. The petition was granted and Judge Thierry Colaw is currently presiding over the coordinated proceedings. In March 2014, the court directed that a group of 10 discovery pool cases be reviewed through fact discovery and subsequently

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

scheduled the Galper v. Merck case, which plaintiffs' selected, as the first trial. The Galper trial began on February 17, 2015 and the jury returned a verdict in Merck's favor on April 3, 2015. There are presently no trial ready cases in California.

Additionally, there are six Femur Fracture cases pending in other state courts.

Discovery is ongoing in the Femur Fracture MDL and in state courts where Femur Fracture cases are pending and the Company intends to defend against these lawsuits.

Januvia/Janumet

As previously disclosed, Merck is a defendant in product liability lawsuits in the United States involving Januvia and/or Janumet. As of June 30, 2015, approximately 915 product user claims were served on, and are pending against, Merck alleging generally that use of Januvia and/or Janumet caused the development of pancreatic cancer. These complaints were filed in several different state and federal courts. Most of the claims are pending in a consolidated multidistrict litigation proceeding in the U.S. District Court for the Southern District of California called "In re Incretin-Based Therapies Products Liability Litigation." That proceeding includes federal lawsuits alleging pancreatic cancer due to use of the following medicines: Januvia, Janumet, Byetta and Victoza, the latter two of which are products manufactured by other pharmaceutical companies. In addition to the cases noted above, the Company has agreed, as of June 30, 2015, to toll the statute of limitations for approximately 20 additional claims. The Company intends to defend against these lawsuits.

NuvaRing

As previously disclosed, beginning in May 2007, a number of product liability complaints were filed in various jurisdictions asserting claims against the Company and its subsidiaries relating to NuvaRing, a combined hormonal contraceptive vaginal ring. The plaintiffs contend the Company, among other things, failed to adequately design and manufacture NuvaRing and failed to adequately warn of the alleged increased risk of venous thromboembolism ("VTE") posed by NuvaRing, and/or downplayed the risk of VTE. The plaintiffs seek damages for injuries allegedly sustained from their product use, including some alleged deaths, heart attacks and strokes. The majority of the cases were pending in a federal multidistrict litigation venued in Missouri.

Pursuant to a settlement agreement between Merck and negotiating plaintiffs' counsel, which became effective as of June 4, 2014, Merck paid a lump total settlement of \$100 million to resolve more than 95% of the cases filed and under retainer by counsel as of February 7, 2014. Plaintiffs in approximately 3,700 cases joined the settlement program. Each filed case is to be dismissed with prejudice once the settlement administration process is completed. Those dismissals began in the second quarter and will continue on a rolling basis throughout 2015. The Company has certain insurance coverage available to it, which is currently being used to partially fund the Company's legal fees. This insurance coverage was also used to fund the settlement.

As of June 30, 2015, there were 14 cases pending outside of the settlement program, inclusive of cases filed after the settlement program closed. Of these cases, 11 are pending in the MDL and are subject to the case management orders requiring plaintiffs to meet various discovery and evidentiary requirements. As of June 30, 2015, six plaintiffs have met those requirements and will be permitted to continue to prosecute their cases.

Propecia/Proscar

As previously disclosed, Merck is a defendant in product liability lawsuits in the United States involving Propecia and/or Proscar. As of June 30, 2015, approximately 1,390 lawsuits involving a total of approximately 1,700 plaintiffs (in a few instances spouses are joined as plaintiffs in the suits) who allege that they have experienced persistent sexual side effects following cessation of treatment with Propecia and/or Proscar have been filed against Merck.

Approximately 60 of the plaintiffs also allege that Propecia or Proscar has caused or can cause prostate cancer, testicular cancer or male breast cancer. The lawsuits have been filed in various federal courts and in state court in New Jersey. The federal lawsuits have been consolidated for pretrial purposes in a federal multidistrict litigation before Judge John Gleeson of the Eastern District of New York. The matters pending in state court in New Jersey have been consolidated before Judge Jessica Mayer in Middlesex County. In addition, there is one matter pending in state court in Massachusetts. The Company intends to defend against these lawsuits.

Governmental Proceedings

As previously disclosed, the Company's subsidiaries in China have received and may continue to receive inquiries regarding their operations from various Chinese governmental agencies. Some of these inquiries may be related to matters involving other multinational pharmaceutical companies, as well as Chinese entities doing business with such companies. The Company's policy is to cooperate with these authorities and to provide responses as appropriate. In connection with the previously disclosed investigation involving Optimer Pharmaceuticals, Inc. ("Optimer") (a company acquired by Cubist prior to Merck's acquisition of Cubist), the Company has been advised by the U.S. Department of Justice that it has closed its investigation and will not bring any enforcement action in this matter. As far as the company is aware, the U.S. Securities and Exchange Commission's (the "SEC") investigation is ongoing. The Company is continuing to cooperate with the SEC in its review of these matters, and Optimer had taken remedial steps in response to its internal investigation prior to

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

the Cubist acquisition. Nonetheless, these events could result in lawsuits being filed against Optimer and certain of Optimer's former employees and directors. The Company may be required to indemnify such persons for any costs or losses incurred in connection with such proceedings. The Company cannot predict the ultimate resolution of these matters, whether Optimer or such persons will be charged with violations of applicable civil laws or whether the scope of the investigations will be extended to new issues. The Company also cannot predict what potential penalties or other remedies, if any, the authorities may seek or what the collateral consequences may be of any such government actions.

Commercial Litigation

K-DUR Antitrust Litigation

As previously disclosed, in June 1997 and January 1998, Schering-Plough settled patent litigation with Upsher-Smith, Inc. ("Upsher-Smith") and ESI Lederle, Inc. ("Lederle"), respectively, relating to generic versions of K-DUR, Schering-Plough's long-acting potassium chloride product supplement used by cardiac patients, for which Lederle and Upsher-Smith had filed Abbreviated New Drug Applications ("ANDAs"). Following the commencement of an administrative proceeding by the U.S. Federal Trade Commission (the "FTC") in 2001 alleging anti-competitive effects from those settlements (which has been resolved in Schering-Plough's favor), putative class and non-class action suits were filed on behalf of direct and indirect purchasers of K-DUR against Schering-Plough, Upsher-Smith and Lederle and were consolidated in a multi-district litigation in the U.S. District Court for the District of New Jersey. These suits claimed violations of federal and state antitrust laws, as well as other state statutory and common law causes of action, and sought unspecified damages. In April 2008, the indirect purchasers voluntarily dismissed their case. In March 2010, the District Court granted summary judgment to the defendants on the remaining lawsuits and dismissed the matter in its entirety. In July 2012, the Third Circuit Court of Appeals reversed the District Court's grant of summary judgment and remanded the case for further proceedings. At the same time, the Third Circuit upheld a December 2008 decision by the District Court certifying certain direct purchaser plaintiffs' claims as a class action.

In August 2012, the Company filed a petition for certiorari with the U.S. Supreme Court seeking review of the Third Circuit's decision. In June 2013, the Supreme Court granted that petition, vacated the judgment of the Third Circuit, and remanded the case for further consideration in light of its decision in *FTC v. Actavis, Inc.* That decision held that whether a so-called "reverse payment" - i.e., a payment from the holder of a pharmaceutical patent to a party challenging the patent made in connection with a settlement of their dispute - violates the antitrust laws should be determined on the basis of a "rule of reason" analysis. In September 2013, the Third Circuit returned the case to the District Court for further proceedings in accordance with the Actavis standard. In April 2015, the Company filed motions for summary judgment, which remain pending. Oral argument on the motions was held on July 22, 2015.

Patent Litigation

From time to time, generic manufacturers of pharmaceutical products file ANDAs with the U.S. Food and Drug Administration (the "FDA") seeking to market generic forms of the Company's products prior to the expiration of relevant patents owned by the Company. To protect its patent rights, the Company may file patent infringement lawsuits against such generic companies. Certain products of the Company (or products marketed via agreements with other companies) currently involved in such patent infringement litigation in the United States include: Cancidas, Cubicin, Emend for Injection, Invanz, Nasonex, and NuvaRing. Similar lawsuits defending the Company's patent rights may exist in other countries. The Company intends to vigorously defend its patents, which it believes are valid, against infringement by generic companies attempting to market products prior to the expiration of such patents. As with any litigation, there can be no assurance of the outcomes, which, if adverse, could result in significantly shortened periods of exclusivity for these products and, with respect to products acquired through mergers and acquisitions, potentially significant intangible asset impairment charges.

Cancidas — In February 2014, a patent infringement lawsuit was filed in the United States against Xellia Pharmaceuticals ApS ("Xellia") with respect to Xellia's application to the FDA seeking pre-patent expiry approval to market a generic version of Cancidas. In June 2015, the district court found that Xellia infringed the Company's patent and ordered that Xellia's application not be approved until the patent expires in September 2017 (including pediatric exclusivity). In August 2014, a patent infringement lawsuit was filed in the United States against Fresenius Kabi USA,

LLC (“Fresenius”) in respect of Fresenius’s application to the FDA seeking pre-patent expiry approval to market a generic version of Cancidas. The lawsuit automatically stays FDA approval of Fresenius’s application until December 2016 or until an adverse court decision, if any, whichever may occur earlier.

Cubicin — In March 2012, a patent infringement lawsuit was filed in the United States against Hospira, Inc. (“Hospira”), with respect to Hospira’s application to the FDA seeking pre-patent expiry approval to market a generic version of Cubicin. A trial was held in February 2014, and in December 2014 the district court found the composition patent, which expires in June 2016, to be valid and infringed. Later patents, expiring in September 2019 and November 2020, were found to be invalid. Hospira has appealed the finding that the composition patent is not invalid and the Company has cross-appealed the finding that the later patents are invalid. The appeal was heard in July 2015, and the Company is currently awaiting the decision. If the decision is upheld on appeal, Hospira’s application will not be approved until at least June 2016.

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

In October 2013, a patent infringement lawsuit was filed in the United States against Strides, Inc. and Agila Specialties Private Limited (“Strides/Agila”), with respect to Strides/Agila’s application to the FDA seeking pre-patent expiry approval to market a generic version of Cubicin. The lawsuit automatically stays FDA approval of Strides/Agila’s application until February 2016 or until an adverse court decision, if any, whichever may occur earlier. If the Hospira decision is upheld on appeal, Strides/Agila’s application will not be approved until at least June 2016. In July 2014, a patent infringement lawsuit was filed in the United States against Fresenius, with respect to Fresenius’s application to the FDA seeking pre-patent expiry approval to market a generic version of Cubicin. The lawsuit automatically stays FDA approval of Fresenius’s application until November 2016 or until an adverse court decision, if any, whichever may occur earlier. If the Hospira decision is upheld on appeal, Fresenius’s application will not be approved until at least June 2016.

An earlier district court action against Teva Parenteral Medicines Inc., Teva Pharmaceuticals USA, Inc. and Teva Pharmaceutical Industries Ltd. (collectively, “Teva”) resulted in a settlement whereby Teva can launch a generic version of the product in December 2017 (June 2018 if the Company obtains pediatric marketing exclusivity on Cubicin). If the Hospira decision is upheld on appeal, Teva will be able to launch in June 2016.

In October 2014, Agila Specialties Inc. and Mylan Pharmaceuticals Inc. (“Agila/Mylan”) filed petitions for Inter Partes Review (“IPR”) at the United States Patent and Trademark Office (“USPTO”) seeking the invalidity of the September 2019 and November 2020 patents. In April 2015, Agila/Mylan withdrew its petitions for IPR in exchange for the Company agreeing to narrow the issues in the Strides/Agila lawsuit referenced above. In November 2014, Fresenius filed petitions for IPR at the USPTO seeking the invalidity of the September 2019 patents. In May 2015, the USPTO granted Fresenius’s petition for an IPR on the September 2019 patents. In July 2015, Fresenius filed petitions for IPR seeking invalidity of the November 2020 patents. The USPTO has six months from filing to determine whether it will institute the requested IPR proceedings.

Emend for Injection — In May 2012, a patent infringement lawsuit was filed in the United States against Sandoz Inc. (“Sandoz”) in respect of Sandoz’s application to the FDA seeking pre-patent expiry approval to market a generic version of Emend for Injection. The lawsuit automatically stays FDA approval of Sandoz’s application until July 2015 or until an adverse court decision, if any, whichever may occur earlier. The trial in the lawsuit against Sandoz was recently completed in the U.S. District Court for the District of New Jersey. The Company is currently awaiting the court’s decision. In July 2015, Sandoz stipulated that it will not launch its product until August 2015 or an adverse decision, if any, whichever may occur earlier. In June 2012, a patent infringement lawsuit was filed in the United States against Accord Healthcare, Inc. US, Accord Healthcare, Inc. and Intas Pharmaceuticals Ltd (collectively, “Intas”) in respect of Intas’ application to the FDA seeking pre-patent expiry approval to market a generic version of Emend for Injection. The Company has agreed with Intas to stay the lawsuit pending the outcome of the lawsuit with Sandoz. In July 2014, a patent infringement lawsuit was filed in the United States against Fresenius in respect of Fresenius’s application to the FDA seeking pre-patent expiry approval to market a generic version of Emend for Injection. The lawsuit automatically stays FDA approval of Fresenius’s application until November 2016 or until an adverse court decision, if any, whichever may occur earlier. In December 2014, Apotex Inc. filed a petition for IPR at the USPTO seeking the invalidity of claims in the compound patent covering Emend for Injection. The USPTO rejected Apotex’s petition in June 2015.

Invanz — In July 2014, a patent infringement lawsuit was filed in the United States against Hospira in respect of Hospira’s application to the FDA seeking pre-patent expiry approval to market a generic version of Invanz. The lawsuit automatically stays FDA approval of Hospira’s application until November 2016 or until an adverse court decision, if any, whichever may occur earlier. Since Hospira did not challenge an earlier patent covering Invanz, its application to the FDA will not be approved until at least that patent expires in May 2016.

Nasonex — In July 2014, a patent infringement lawsuit was filed in the United States against Teva Pharmaceuticals USA, Inc. (“Teva Pharma”) in respect of Teva Pharma’s application to the FDA seeking pre-patent expiry approval to market a generic version of Nasonex. The lawsuit automatically stays FDA approval of Teva Pharma’s application until November 2016 or until an adverse court decision, if any, whichever may occur earlier. In March 2015, a patent infringement lawsuit was filed in the United States against Amneal Pharmaceuticals LLC (“Amneal”), in respect of Amneal’s application to the FDA seeking pre-patent expiry approval to market a generic version of Nasonex. The

lawsuit automatically stays FDA approval of Amneal's application until August 2017 or until an adverse court decision, if any, whichever may occur earlier.

A previous decision, issued in June 2013, held that the Merck patent in the Teva Pharma and Amneal lawsuits covering mometasone furoate monohydrate was valid, but that it was not infringed by Apotex Corp.'s proposed product. In April 2015, a patent infringement lawsuit was filed against Apotex Inc. and Apotex Corp. ("Apotex") in respect of Apotex's application to the FDA seeking pre-patent expiry approval to market a generic version of Nasonex that allegedly differs from the generic version in the previous lawsuit.

NuvaRing — In December 2013, the Company filed a lawsuit against a subsidiary of Allergan plc in the United States in respect of that company's application to the FDA seeking pre-patent expiry approval to sell a generic version of NuvaRing.

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Anti-PD-1 Antibody Patent Oppositions and Litigation

As previously disclosed, Ono Pharmaceutical Co. (“Ono”) has a European patent (EP 1 537 878) (“’878”) that broadly claims the use of an anti-PD-1 antibody, such as the Company’s immunotherapy, Keytruda, for the treatment of cancer. Ono has previously licensed its commercial rights to an anti-PD-1 antibody to Bristol-Myers Squibb (“BMS”) in certain markets. The Company believes that the ’878 patent is invalid and filed an opposition in the European Patent Office (the “EPO”) seeking its revocation. In June 2014, the Opposition Division of the EPO found the claims in the ’878 patent are valid. The Company received the Opposition Division’s written opinion in September 2014 and the Company submitted its substantive appeal in February 2015. In April 2014, the Company, and three other companies, opposed another European patent (EP 2 161 336) (“’336”) owned by BMS and Ono that it believes is invalid. The ’336 patent, if valid, broadly claims anti-PD-1 antibodies that could include Keytruda. BMS and Ono recently submitted a request to amend the claims of the ’336 patent. If the EPO allows this amendment, the claims of the ’336 patent would no longer broadly claim anti-PD-1 antibodies such as Keytruda.

In May 2014, the Company filed a lawsuit in the United Kingdom (“UK”) seeking revocation of the UK national versions of both the ’878 and ’336 patents. In July 2014, Ono and BMS sued the Company seeking a declaration that the ’878 patent would be infringed in the UK by the marketing of Keytruda. The Company has sought a declaration from the UK court that Keytruda will not infringe the ’336 patent in the UK. BMS and Ono notified the Company of their request to amend the claims of the EPO ’336 patent and of their intention to seek permission from the court to similarly amend the UK national version so that the claims of the ’336 patent would no longer broadly claim anti-PD-1 antibodies such as Keytruda. A trial was held in the UK in July 2015. At that trial, the issues of validity and infringement of the ’878 patent were heard at the same time by the court. The Company is currently awaiting the court’s decision.

In February 2015, the Company filed lawsuits in the Netherlands seeking revocation of the Dutch national versions of both the ’878 and ’336 patents. BMS and Ono recently notified the company that it will amend the claims of the ’336 patent so that the claims of the ’336 patent would no longer broadly claim anti-PD-1 antibodies such as Keytruda. Trials in these litigations are scheduled to begin in January and February 2016, respectively.

The Company can file lawsuits seeking revocation of the ’336 and ’878 patents in other national courts in Europe at any time, and Ono and BMS can file patent infringement actions against the Company in other national courts in Europe at or around the time the Company launches Keytruda. If a national court determines that the Company infringed a valid claim in the ’878 or ’336 patent, Ono and BMS may be entitled to monetary damages, including royalties on future sales of Keytruda, and potentially could seek an injunction to prevent the Company from marketing Keytruda in that country.

The USPTO granted US Patent Nos. 8,728,474 to Ono and 8,779,105 to Ono and BMS. These patents are equivalent to the ’878 and ’336 patents, respectively. In September 2014, BMS and Ono filed a lawsuit in the United States alleging that, by marketing Keytruda, the Company will infringe US Patent No. 8,728,474. BMS and Ono are not seeking to prevent or stop the marketing of Keytruda in the United States. The trial in this matter is currently scheduled to begin in November 2016. The Company believes that the 8,728,474 patent and the 8,779,105 patent are both invalid. Recently, Ono filed lawsuits in the United States alleging that, by marketing Keytruda, the Company will infringe US Patent Nos. 9,067,999 and 9,073,994, which are patents related to the 8,728,474 patent. The Company believes the 9,067,999 and 9,073,994 patents are also invalid.

In September 2014, the Company filed a lawsuit in Australia seeking the revocation of Australian patent No. 2011203119, which is equivalent to the ’336 patent. In March 2015, BMS and Ono counterclaimed in this matter alleging that the Company’s manufacture and supply of Keytruda to the Australian market will infringe Australian patent No. 2011203119.

Ono and BMS have similar and other patents and applications, which the Company is closely monitoring, pending in the United States, Japan and other countries.

The Company is confident that it will be able to market Keytruda in any country in which it is approved and that it will not be prevented from doing so by the Ono or BMS patents or any pending applications.

Other Litigation

There are various other pending legal proceedings involving the Company, principally product liability and intellectual property lawsuits. While it is not feasible to predict the outcome of such proceedings, in the opinion of the Company, either the likelihood of loss is remote or any reasonably possible loss associated with the resolution of such proceedings is not expected to be material to the Company's financial position, results of operations or cash flows either individually or in the aggregate.

Legal Defense Reserves

Legal defense costs expected to be incurred in connection with a loss contingency are accrued when probable and reasonably estimable. Some of the significant factors considered in the review of these legal defense reserves are as follows: the actual costs incurred by the Company; the development of the Company's legal defense strategy and structure in light of the scope

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

of its litigation; the number of cases being brought against the Company; the costs and outcomes of completed trials and the most current information regarding anticipated timing, progression, and related costs of pre-trial activities and trials in the associated litigation. The amount of legal defense reserves as of June 30, 2015 and December 31, 2014 of approximately \$230 million and \$215 million, respectively, represents the Company's best estimate of the minimum amount of defense costs to be incurred in connection with its outstanding litigation; however, events such as additional trials and other events that could arise in the course of its litigation could affect the ultimate amount of legal defense costs to be incurred by the Company. The Company will continue to monitor its legal defense costs and review the adequacy of the associated reserves and may determine to increase the reserves at any time in the future if, based upon the factors set forth, it believes it would be appropriate to do so.

10. Equity

(\$ and shares in millions)	Common Stock Shares	Par Value	Other Paid-In Capital	Retained Earnings	Accumulated Other Comprehensive Loss	Treasury Stock Shares	Cost	Non- Controlling Interests	Total
Balance at January 1, 2014	3,577	\$ 1,788	\$40,508	\$39,257	\$ (2,197)	650	\$(29,591)	\$2,561	\$52,326
Net income attributable to Merck & Co., Inc.	—	—	—	3,709	—	—	—	—	3,709
Cash dividends declared on common stock	—	—	—	(2,600)	—	—	—	—	(2,600)
Treasury stock shares purchased	—	—	—	—	—	60	(3,413)	—	(3,413)
Share-based compensation plans and other	—	—	(309)	—	—	(33)	1,453	1	1,145
Other comprehensive loss	—	—	—	—	(247)	—	—	—	(247)
AstraZeneca option exercise	—	—	—	—	—	—	—	(2,400)	(2,400)
Net income attributable to noncontrolling interests	—	—	—	—	—	—	—	55	55
Distributions attributable to noncontrolling interests	—	—	—	—	—	—	—	(59)	(59)
Balance at June 30, 2014	3,577	\$ 1,788	\$40,199	\$40,366	\$ (2,444)	677	\$(31,551)	\$ 158	\$48,516
Balance at January 1, 2015	3,577	\$ 1,788	\$40,423	\$46,021	\$ (4,323)	739	\$(35,262)	\$ 144	\$48,791
Net income attributable to Merck & Co., Inc.	—	—	—	1,639	—	—	—	—	1,639
Cash dividends declared on common stock	—	—	—	(2,557)	—	—	—	—	(2,557)
Treasury stock shares purchased	—	—	—	—	—	29	(1,724)	—	(1,724)
Share-based compensation plans and other	—	—	(317)	—	—	(15)	761	5	449
Other comprehensive loss	—	—	—	—	(9)	—	—	—	(9)
Partial sale of majority owned subsidiary	—	—	8	—	—	—	—	37	45
Net income attributable to noncontrolling interests	—	—	—	—	—	—	—	7	7
Distributions attributable to noncontrolling interests	—	—	—	—	—	—	—	(3)	(3)
Balance at June 30, 2015	3,577	\$ 1,788	\$40,114	\$45,103	\$ (4,332)	753	\$(36,225)	\$ 190	\$46,638

In connection with the 1998 restructuring of Astra Merck Inc., the Company assumed \$2.4 billion par value preferred stock with a dividend rate of 5% per annum, which was carried by KBI and included in Noncontrolling interests on

the Consolidated Balance Sheet. As discussed in Note 7, on June 30, 2014, AstraZeneca exercised its option to acquire Merck's interest in AZLP and this preferred stock obligation was retired.

11. Share-Based Compensation Plans

The Company has share-based compensation plans under which the Company grants restricted stock units ("RSUs") and performance share units ("PSUs") to certain management level employees. In addition, employees, non-employee directors and employees of certain of the Company's equity method investees may be granted options to purchase shares of Company common stock at the fair market value at the time of grant.

The following table provides amounts of share-based compensation cost recorded in the Consolidated Statement of Income:

(\$ in millions)	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2015	2014	2015	2014
Pretax share-based compensation expense	\$83	\$78	\$146	\$134
Income tax benefit	(26)	(24)	(45)	(41)
Total share-based compensation expense, net of taxes	\$57	\$54	\$101	\$93

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Amounts in the table above do not reflect share-based compensation costs to settle non-vested Cubist equity awards attributable to postcombination service that were recognized as transaction expense in 2015 (see Note 3).

During the first six months of 2015 and 2014, the Company granted 4 million RSUs with a weighted-average grant date fair value of \$59.83 per RSU and 5 million RSUs with a weighted-average grant date fair value of \$58.18 per RSU, respectively. During the first six months of 2015 and 2014, the Company granted 5 million stock options with a weighted-average exercise price of \$59.83 per option and 5 million stock options with a weighted-average exercise price of \$56.94 per option, respectively. The weighted-average fair value of options granted for the first six months of 2015 and 2014 was \$6.47 and \$6.79 per option, respectively, and was determined using the following assumptions:

	Six Months Ended June 30,			
	2015		2014	
Expected dividend yield	4.1	%	4.3	%
Risk-free interest rate	1.7	%	2.0	%
Expected volatility	19.9	%	22.0	%
Expected life (years)	6.2		6.4	

At June 30, 2015, there was \$569 million of total pretax unrecognized compensation expense related to nonvested stock options, RSU and PSU awards which will be recognized over a weighted-average period of 2.2 years. For segment reporting, share-based compensation costs are unallocated expenses.

12. Pension and Other Postretirement Benefit Plans

The Company has defined benefit pension plans covering eligible employees in the United States and in certain of its international subsidiaries. The net periodic benefit cost of such plans consisted of the following components:

	Three Months Ended				Six Months Ended			
	June 30,				June 30,			
	2015	2014	2015	2014	2015	2014	2015	2014
(\$ in millions)	U.S.	International	U.S.	International	U.S.	International	U.S.	International
Service cost	\$83	\$ 63	\$82	\$ 68	\$165	\$ 129	\$164	\$ 136
Interest cost	109	51	108	68	218	104	215	137
Expected return on plan assets	(206)	(94)	(196)	(105)	(411)	(191)	(391)	(211)
Net amortization	43	26	14	13	85	53	28	27
Termination benefits	2	—	13	4	18	1	26	5
Curtailments	(2)	—	(23)	—	(8)	—	(32)	—
Settlements	—	1	—	—	—	2	—	—
	\$29	\$ 47	\$(2)	\$ 48	\$67	\$ 98	\$10	\$ 94

The Company provides medical benefits, principally to its eligible U.S. retirees and similar benefits to their dependents, through its other postretirement benefit plans. The net cost of such plans consisted of the following components:

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2015	2014	2015	2014
(\$ in millions)				
Service cost	\$19	\$19	\$39	\$38
Interest cost	27	29	55	57
Expected return on plan assets	(36)	(35)	(72)	(69)
Net amortization	(15)	(17)	(30)	(35)
Termination benefits	1	4	5	8
Curtailments	(1)	(6)	(7)	(26)
	\$(5)	\$(6)	\$(10)	\$(27)

In connection with restructuring actions (see Note 2), termination charges were recorded on pension and other postretirement benefit plans related to expanded eligibility for certain employees exiting Merck. Also, in connection

with these restructuring actions, curtailments and settlements were recorded on pension and other postretirement benefit plans as reflected in the tables above.

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

13. Other (Income) Expense, Net

Other (income) expense, net, consisted of:

	Three Months Ended June 30,		Six Months Ended June 30,	
(\$ in millions)	2015	2014	2015	2014
Interest income	\$(71)	\$(59)	\$(146)	\$(121)
Interest expense	174	188	338	376
Exchange losses	716	20	810	53
Equity income from affiliates	(2)	(92)	(147)	(217)
Other, net	(78)	(707)	(62)	(904)
	\$739	\$(650)	\$793	\$(813)

The increases in exchange losses in the second quarter and first six months of 2015 as compared with the corresponding periods of 2014 were driven by a \$715 million charge in the second quarter of 2015 to revalue the Company's net monetary assets in Venezuela (see discussion below). The declines in equity income from affiliates for the second quarter and first six months of 2015 as compared with the same periods in 2014 are due to the termination of the Company's relationship with AZLP on June 30, 2014 (see Note 7), partially offset by higher equity income from certain research investment funds. Other, net in the second quarter and first six months of 2015 includes the recognition of \$54 million and \$103 million, respectively, of deferred income (see Note 7). Other, net in the first six months of 2015 also includes an expense of \$78 million for a contribution of investments in equity securities to the Merck Company Foundation. Other, net in the second quarter and first six months of 2014 includes a gain of \$741 million related to AstraZeneca's option exercise (see Note 7). In addition, Other, net in the first six months of 2014 includes gains of \$204 million related to the divestiture of Sirna (see Note 3).

During the second quarter of 2015, upon evaluation of evolving economic conditions in Venezuela and volatility in the country, the Company determined it was unlikely that all outstanding net monetary assets would be settled at the official rate of 6.30 VEF per U.S. dollar. Accordingly, during the second quarter of 2015, the Company recorded a charge of \$715 million to revalue its net monetary assets in Venezuela to an amount that includes the Company's estimate of the U.S. dollar amount that will ultimately be collected. While the remaining net monetary assets at June 30, 2015 include the Company's estimate of the U.S. dollar amount that will be collected, it is possible that not all of these amounts will be collected and the Company may record additional charges in the future.

Interest paid for the six months ended June 30, 2015 and 2014 was \$293 million and \$376 million, respectively.

14. Taxes on Income

The effective income tax rates of 14.7% and (7.5)% for the second quarter of 2015 and 2014, respectively, and 24.8% and 5.5% for the first six months of 2015 and 2014, respectively, reflect the impacts of acquisition and divestiture-related costs and restructuring costs, partially offset by the beneficial impact of foreign earnings. The effective income tax rates for the second quarter and first six months of 2015 also reflect the favorable impact of a net benefit of \$370 million related to the settlement of certain federal income tax issues, as well as the unfavorable effects of foreign exchange losses related to Venezuela for which no tax benefit was recorded and a \$75 million out of period discrete adjustment related to deferred taxes associated with prior year restructuring activities. Management considered the discrete adjustment to be immaterial to current and prior period financial statements as reported. The effective income tax rates for the second quarter and first six months of 2014 also reflect a net tax benefit of \$517 million recorded in connection with AstraZeneca's option exercise (see Note 7). In addition, the effective income tax rate for the first six months of 2014 includes a benefit of approximately \$300 million associated with a capital loss generated in the quarter related to the sale of Sirna (see Note 3).

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

15. Earnings Per Share

The calculations of earnings per share are as follows:

	Three Months Ended June 30,		Six Months Ended June 30,	
(\$ and shares in millions except per share amounts)	2015	2014	2015	2014
Net income attributable to Merck & Co., Inc.	\$687	\$2,004	\$1,639	\$3,709
Average common shares outstanding	2,826	2,917	2,831	2,925
Common shares issuable ⁽¹⁾	24	32	25	32
Average common shares outstanding assuming dilution	2,850	2,949	2,856	2,957
Basic earnings per common share attributable to Merck & Co., Inc. common shareholders	\$0.24	\$0.69	\$0.58	\$1.27
Earnings per common share assuming dilution attributable to Merck & Co., Inc. common shareholders	\$0.24	\$0.68	\$0.57	\$1.25

⁽¹⁾ Issuable primarily under share-based compensation plans.

For the three months ended June 30, 2015 and 2014, 6 million and 4 million, respectively, and for the first six months of 2015 and 2014, 5 million and 3 million, respectively, of common shares issuable under share-based compensation plans were excluded from the computation of earnings per common share assuming dilution because the effect would have been antidilutive.

16. Other Comprehensive Income (Loss)

Changes in AOCI by component are as follows:

	Three Months Ended June 30,					Accumulated Other Comprehensive Income (Loss)
(\$ in millions)	Derivatives	Investments	Employee Benefit Plans	Cumulative Translation Adjustment		
Balance April 1, 2014, net of taxes	\$66	\$ 52	\$(910)	\$(1,387)		\$(2,179)
Other comprehensive income (loss) before reclassification adjustments, pretax	(55)	44	(558)	45		(524)
Tax	19	(2)	216	(4)		229
Other comprehensive income (loss) before reclassification adjustments, net of taxes	(36)	42	(342)	41		(295)
Reclassification adjustments, pretax	(4)	35	11	—		42
Tax	1	(13)	—	—		(12)
Reclassification adjustments, net of taxes	(3) ⁽¹⁾	22 ⁽²⁾	11 ⁽³⁾	—		30
Other comprehensive income (loss), net of taxes	(39)	64	(331)	41		(265)
Balance June 30, 2014, net of taxes	\$27	\$ 116	\$(1,241)	\$(1,346)		\$(2,444)
Balance April 1, 2015, net of taxes	\$782	\$ 157	\$(2,951)	\$(2,155)		\$(4,167)
Other comprehensive income (loss) before reclassification adjustments, pretax	(85)	6	9	(41)		(111)
Tax	30	(15)	(1)	24		38
Other comprehensive income (loss) before reclassification adjustments, net of taxes	(55)	(9)	8	(17)		(73)
Reclassification adjustments, pretax	(192)	(6)	54	—		(144)
Tax	71	1	(20)	—		52
Reclassification adjustments, net of taxes	(121) ⁽¹⁾	(5) ⁽²⁾	34 ⁽³⁾	—		(92)
Other comprehensive income (loss), net of taxes	(176)	(14)	42	(17)		(165)

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Balance June 30, 2015, net of taxes	\$606	\$ 143	\$(2,909)	\$(2,172)	\$(4,332)
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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

(\$ in millions)	Six Months Ended June 30,					Accumulated Other Comprehensive Income (Loss)
	Derivatives	Investments	Employee Benefit Plans	Cumulative Translation Adjustment		
Balance January 1, 2014, net of taxes	\$ 132	\$ 54	\$(909)	\$(1,474)		\$ (2,197)
Other comprehensive income (loss) before reclassification adjustments, pretax	(157)	39	(572)	121		(569)
Tax	55	5	223	7		290
Other comprehensive income (loss) before reclassification adjustments, net of taxes	(102)	44	(349)	128		(279)
Reclassification adjustments, pretax	(4)	30	20	—		46
Tax	1	(12)	(3)	—		(14)
Reclassification adjustments, net of taxes	(3) ⁽¹⁾	18 ⁽²⁾	17 ⁽³⁾	—		32
Other comprehensive income (loss), net of taxes	(105)	62	(332)	128		(247)
Balance June 30, 2014, net of taxes	\$ 27	\$ 116	\$(1,241)	\$(1,346)		\$ (2,444)
Balance January 1, 2015, net of taxes	\$ 530	\$ 111	\$(2,986)	\$(1,978)		\$ (4,323)
Other comprehensive income (loss) before reclassification adjustments, pretax	480	99	15	(94)		500
Tax	(168)	(25)	(4)	(100)		(297)
Other comprehensive income (loss) before reclassification adjustments, net of taxes	312	74	11	(194)		203
Reclassification adjustments, pretax	(363)	(62)	108	—		(317)
Tax	127	20	(42)	—		105
Reclassification adjustments, net of taxes	(236) ⁽¹⁾	(42) ⁽²⁾	66 ⁽³⁾	—		(212)
Other comprehensive income (loss), net of taxes	76	32	77	(194)		(9)
Balance June 30, 2015, net of taxes	\$ 606	\$ 143	\$(2,909)	\$(2,172)		\$ (4,332)

⁽¹⁾ Relates to foreign currency cash flow hedges that were reclassified from AOCI to Sales.

⁽²⁾ Represents net realized (gains) losses on the sales of available-for-sale investments that were reclassified from AOCI to Other (income) expense, net.

⁽³⁾ Includes net amortization of prior service cost and actuarial gains and losses included in net periodic benefit cost (see Note 12).

17. Segment Reporting

The Company's operations are principally managed on a products basis and include the Pharmaceutical, Animal Health and Alliances operating segments. The Animal Health and Alliances segments are not material for separate reporting. The Pharmaceutical segment includes human health pharmaceutical and vaccine products marketed either directly by the Company or through joint ventures. Human health pharmaceutical products consist of therapeutic and preventive agents, generally sold by prescription, for the treatment of human disorders. The Company sells these human health pharmaceutical products primarily to drug wholesalers and retailers, hospitals, government agencies and managed health care providers such as health maintenance organizations, pharmacy benefit managers and other institutions. Vaccine products consist of preventive pediatric, adolescent and adult vaccines, primarily administered at physician offices. The Company sells these human health vaccines primarily to physicians, wholesalers, physician distributors and government entities. A large component of pediatric and adolescent vaccines is sold to the U.S. Centers for Disease Control and Prevention Vaccines for Children program, which is funded by the U.S. government. Additionally, the Company sells vaccines to the Federal government for placement into vaccine stockpiles. The Company also has animal health operations that discover, develop, manufacture and market animal health products,

including vaccines, which the Company sells to veterinarians, distributors and animal producers. The Alliances segment includes revenue and equity income from AZLP until its termination on June 30, 2014. On October 1, 2014, the Company sold its Consumer Care segment that developed, manufactured and marketed over-the-counter, foot care and sun care products.

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Notes to Interim Consolidated Financial Statements (unaudited) (continued)

Sales of the Company's products were as follows:

(\$ in millions)	Three Months Ended June 30,		Six Months Ended June 30,	
	2015	2014	2015	2014
Primary Care and Women's Health				
Cardiovascular				
Zetia	\$635	\$717	\$1,202	\$1,328
Vytorin	320	417	640	777
Diabetes				
Januvia	1,044	1,058	1,928	1,916
Janumet	554	519	1,063	995
General Medicine and Women's Health				
NuvaRing	182	178	348	346
Implanon/Nexplanon	124	119	261	221
Dulera	120	103	251	205
Follistim AQ	111	102	193	213
Hospital and Specialty				
Hepatitis				
PegIntron	52	103	108	216
HIV				
Isentress	375	453	760	843
Hospital Acute Care				
Cubicin ⁽¹⁾	293	6	480	11
Cancidas	134	156	297	322
Invanz	139	134	271	249
Noxafil	117	98	228	172
Bridion	87	82	172	155
Primaxin	88	81	153	151
Immunology				
Remicade	455	607	956	1,211
Simponi	169	174	327	330
Oncology				
Emend	134	144	255	266
Keytruda	110	—	192	—
Temodar	80	93	155	176
Diversified Brands				
Respiratory				
Nasonex	215	258	504	570
Singulair	212	284	457	554
Clarinx	55	69	106	131
Other				
Cozaar/Hyzaar	189	214	374	419
Arcoxia	115	141	238	268
Fosamax	96	121	190	245
Zocor	63	69	112	133
Propecia	39	58	92	131
Vaccines ⁽²⁾				
Gardasil/Gardasil 9	427	409	785	792
ProQuad/M-M-R II/Varivax	358	326	705	606

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Zostavax	149	156	324	298
RotaTeq	89	147	281	316
Pneumovax 23	106	102	216	203
Other pharmaceutical ⁽³⁾	1,128	1,389	2,206	2,769
Total Pharmaceutical segment sales	8,564	9,087	16,830	17,538
Other segment sales ⁽⁴⁾	858	1,796	1,732	3,336
Total segment sales	9,422	10,883	18,562	20,874
Other ⁽⁵⁾	363	51	648	324
	\$9,785	\$10,934	\$19,210	\$21,198

(1) Sales of Cubicin in 2015 represent sales subsequent to the Cubist acquisition date. Sales of Cubicin in 2014 reflect sales in Japan pursuant to a previously existing licensing agreement.

(2) These amounts do not reflect sales of vaccines sold in most major European markets through the Company's joint venture, Sanofi Pasteur MSD, the results of which are reflected in equity income from affiliates which is included in Other (income) expense, net. These amounts do, however, reflect supply sales to Sanofi Pasteur MSD.

(3) Other pharmaceutical primarily reflects sales of other human health pharmaceutical products, including products within the franchises not listed separately.

(4) Represents the non-reportable segments of Animal Health and Alliances, as well as Consumer Care until its divestiture on October 1, 2014. The Alliances segment includes revenue from the Company's relationship with AZLP until its termination on June 30, 2014 (see Note 7).

(5) Other revenues are primarily comprised of miscellaneous corporate revenues, including revenue hedging activities, as well as third-party manufacturing sales. Other revenues in the first six months of 2014 include \$232 million received by Merck in connection with the sale of the U.S. marketing rights to Saphris (see Note 3).

Notes to Interim Consolidated Financial Statements (unaudited) (continued)

A reconciliation of segment profits to Income before taxes is as follows:

(\$ in millions)	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2015	2014	2015	2014
Segment profits:				
Pharmaceutical segment	\$5,282	\$5,507	\$10,447	\$10,703
Other segments	425	814	882	1,513
Total segment profits	5,707	6,321	11,329	12,216
Other profits (losses)	208	76	343	291
Unallocated:				
Interest income	71	59	146	121
Interest expense	(174)	(188)	(338)	(376)
Equity income from affiliates	(7)	29	136	84
Depreciation and amortization	(395)	(681)	(793)	(1,301)
Research and development	(1,460)	(1,363)	(3,020)	(2,651)
Amortization of purchase accounting adjustments	(1,238)	(1,064)	(2,476)	(2,190)
Restructuring costs	(191)	(163)	(273)	(288)
Foreign exchange losses related to Venezuela	(715)	—	(715)	—
AstraZeneca option exercise	—	741	—	741
Other unallocated, net	(999)	(1,876)	(2,151)	(2,665)
	\$807	\$1,891	\$2,188	\$3,982

Segment profits are comprised of segment sales less standard costs and certain operating expenses directly incurred by the segments. For internal management reporting presented to the chief operating decision maker, Merck does not allocate materials and production costs, other than standard costs, the majority of research and development expenses or general and administrative expenses, nor the cost of financing these activities. Separate divisions maintain responsibility for monitoring and managing these costs, including depreciation related to fixed assets utilized by these divisions and, therefore, they are not included in segment profits. In addition, costs related to restructuring activities, as well as the amortization of purchase accounting adjustments are not allocated to segments.

Other profits (losses) are primarily comprised of miscellaneous corporate profits (losses), as well as operating profits (losses) related to third-party manufacturing sales.

Other unallocated, net includes expenses from corporate and manufacturing cost centers, goodwill and product intangible asset impairment charges, gains or losses on sales of businesses and other miscellaneous income or expense items.

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

Business Developments

In January 2015, Merck acquired Cubist Pharmaceuticals, Inc. ("Cubist") for total consideration of \$8.3 billion (see Note 3 to the interim consolidated financial statements). Cubist was a leader in the development of therapies to treat serious infections caused by a broad range of bacteria. This transaction closed on January 21, 2015; accordingly, the results of operations of the acquired business have been included in the Company's results of operations beginning after that date.

In February 2015, Merck and NGM Biopharmaceuticals, Inc. ("NGM"), a privately-held biotechnology company, entered into a multi-year collaboration to research, discover, develop and commercialize novel biologic therapies across a wide range of therapeutic areas (see Note 3 to the interim consolidated financial statements).

In July 2015, Merck acquired cCAM Biotherapeutics ("cCAM"), a privately held biopharmaceutical company focused on the discovery and development of novel cancer immunotherapies. (See "Research and Development Update" below.)

Operating Results

Sales

Worldwide sales were \$9.8 billion for the second quarter of 2015, a decline of 11% compared with the second quarter of 2014. Foreign exchange unfavorably affected global sales performance by 7% in the second quarter of 2015. The sales decline in the second quarter of 2015 was driven primarily by the divestiture of Merck's Consumer Care ("MCC") business and certain ophthalmic product divestitures in 2014 as discussed below, as well as by lower revenue as a result of the termination in 2014 of the Company's relationship with AstraZeneca LP ("AZLP") as discussed below. Sales performance in the second quarter of 2015 as compared with the second quarter of 2014 also reflects the addition of \$329 million of revenues from Cubist products as a result of the acquisition, as well as higher sales of Keytruda (pembrolizumab), ProQuad (Measles, Mumps, Rubella and Varicella Virus Vaccine Live), Janumet (sitagliptin and metformin HCl), and higher third-party manufacturing sales, partially offset by declines in Zetia (ezetimibe) and Vytorin (ezetimibe and simvastatin), Remicade (infliximab), Isentress (raltegravir), Singulair (montelukast sodium), RotaTeq (Rotavirus Vaccine, Live Oral, Pentavalent), PegIntron (peginterferon alpha-2b), Nasonex (mometasone furoate monohydrate) and Victrelis (boceprevir).

Global sales were \$19.2 billion for the first six months of 2015, a decline of 9% compared with the same period in 2014 including a 5% unfavorable effect from foreign exchange. The sales decline in the first six months of 2015 was driven primarily by the MCC and product divestitures discussed below, as well as by lower revenue as a result of the termination in 2014 of the Company's relationship with AZLP. In addition, the revenue decline was attributable to the sale of the U.S. marketing rights to Saphris (asenapine) that resulted in revenue of \$232 million in the first six months of 2014. Sales performance in the first six months of 2015 as compared with the corresponding period of 2014 also reflects the addition of \$537 million of revenues from Cubist products as a result of the acquisition, as well as higher sales of Keytruda, ProQuad, M-M-R II (Measles, Mumps and Rubella Virus Vaccine Live), and Varivax (Varicella Virus Vaccine Live), Januvia (sitagliptin) and Janumet, Noxafil (posaconazole), Dulera Inhalation Aerosol (mometasone furoate/formoterol fumarate dihydrate), Implanon/Nexplanon (etonogestrel implant), and higher third-party manufacturing sales, partially offset by declines in Zetia and Vytorin, Remicade, PegIntron, Singulair, Victrelis, and Nasonex.

Global efforts toward health care cost containment continue to exert pressure on product pricing and market access worldwide. In the United States, health care reform is contributing to an increase in the number of patients in the Medicaid program under which sales of pharmaceutical products are subject to substantial rebates. In many international markets, government-mandated pricing actions have reduced prices of generic and patented drugs. In addition, other austerity measures negatively affected the Company's revenue performance in the first half of 2015. The Company anticipates these pricing actions and other austerity measures will continue to negatively affect revenue performance for the remainder of 2015.

In 2014, the Company divested certain ophthalmic products in several international markets (most of which closed on July 1, 2014). In addition, on October 1, 2014, the Company sold its MCC business to Bayer AG. The sales decline in the second quarter of 2015 attributable to these divestitures was approximately \$730 million of which \$580 million

related to the Consumer Care segment and \$150 million related to the Pharmaceutical segment. The sales decline in the first six months of 2015 attributable to these divestitures was approximately \$1.4 billion of which \$1.1 billion related to the Consumer Care segment and \$300 million related to the Pharmaceutical segment. Also, as discussed in Note 7 to the interim consolidated financial statements, the Company's relationship with AZLP terminated on June 30, 2014; therefore, effective July 1, 2014, the Company no longer records supply sales to AZLP which resulted in sales declines in the Alliances segment of \$316 million and \$463 million in the second quarter and first six months of 2015, respectively.

Sales of the Company's products were as follows:

(\$ in millions)	Three Months Ended June 30,		Six Months Ended June 30,	
	2015	2014	2015	2014
Primary Care and Women's Health				
Cardiovascular				
Zetia	\$635	\$717	\$1,202	\$1,328
Vytorin	320	417	640	777
Diabetes				
Januvia	1,044	1,058	1,928	1,916
Janumet	554	519	1,063	995
General Medicine and Women's Health				
NuvaRing	182	178	348	346
Implanon/Nexplanon	124	119	261	221
Dulera	120	103	251	205
Follistim AQ	111	102	193	213
Hospital and Specialty				
Hepatitis				
PegIntron	52	103	108	216
HIV				
Isentress	375	453	760	843
Hospital Acute Care				
Cubicin ⁽¹⁾	293	6	480	11
Cancidas	134	156	297	322
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Emend	134	144	255	266
Keytruda	110	—	192	—
Temodar	80	93	155	176
Diversified Brands				
Respiratory				
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Zocor	63	69	112	133
Vaccines ⁽²⁾				
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(2) Other pharmaceutical primarily reflects sales of other human health pharmaceutical products, including products within the franchises not listed separately.

(3) Represents the non-reportable segments of Animal Health and Alliances, as well as Consumer Care until its divestiture on October 1, 2014. The Alliances segment includes revenue from the Company's relationship with AZLP until its termination on June 30, 2014.

Other revenues are primarily comprised of miscellaneous corporate revenues, including revenue hedging activities, as well as third-party manufacturing sales. Other revenues in the first six months of 2014 include \$232 million received by Merck in connection with the sale of the U.S. marketing rights to Saphris.

The provision for discounts includes indirect customer discounts that occur when a contracted customer purchases directly through an intermediary wholesale purchaser, known as chargebacks, as well as indirectly in the form of rebates owed based upon definitive contractual agreements or legal requirements with private sector and public sector (Medicaid and Medicare Part D) benefit providers, after the final dispensing of the product by a pharmacy to a benefit plan participant. These discounts, in the aggregate, reduced sales by \$2.0 billion and \$1.7 billion for the three months ended June 30, 2015 and 2014, respectively, and by \$3.7 billion and \$3.1 billion for the six months ended June 30, 2015 and 2014, respectively. Inventory levels at key U.S. wholesalers for each of the Company's major pharmaceutical products are generally less than one month.

Pharmaceutical Segment

Primary Care and Women's Health

Cardiovascular

Combined global sales of Zetia (marketed in most countries outside the United States as Ezetrol) and Vytorin (marketed outside the United States as Inegy), medicines for lowering LDL cholesterol, were \$955 million in the second quarter of 2015, a decline of 16% compared with the second quarter of 2014 including an 8% unfavorable effect from foreign exchange. Combined worldwide sales of Zetia and Vytorin were \$1.8 billion in the first six months of 2015, a decline of 12% compared with the same period in 2014 including a 6% unfavorable effect from foreign exchange. The declines in both periods were driven primarily by lower volumes of Ezetrol in Canada where it lost market exclusivity in September 2014, as well as by lower volumes in the United States and pricing declines in Europe, partially offset by higher pricing in the United States.

In November 2014, Merck announced that the investigational IMPROVE-IT study (IMProved Reduction of Outcomes: Vytorin Efficacy International Trial) met its primary and all secondary composite efficacy endpoints. In IMPROVE-IT, patients taking Vytorin - which combines simvastatin with Zetia - experienced significantly fewer major cardiovascular events (as measured by a composite of cardiovascular death, non-fatal myocardial infarction, non-fatal stroke, re-hospitalization for unstable angina or coronary revascularization occurring at least 30 days after randomization) than patients treated with simvastatin alone. The results from this 18,144 patient study of high-risk patients presenting with acute coronary syndromes were presented at the American Heart Association 2014 Scientific Sessions. In April 2015, Merck submitted the data from IMPROVE-IT to the U.S. Food and Drug Administration (the "FDA") to support a new indication for reduction of cardiovascular events for Vytorin and Zetia. Vytorin and Zetia are currently indicated for use along with a healthy diet to reduce elevated LDL cholesterol in patients with hyperlipidemia. The current U.S. Prescribing Information for both products states that the effect of ezetimibe on cardiovascular morbidity and mortality, alone or incremental to statin therapy, has not been determined.

By agreement, a generic manufacturer may launch a generic version of Zetia in the United States in December 2016. The U.S. patent and exclusivity periods for Zetia and Vytorin otherwise expire in April 2017. The Company has market exclusivity for Ezetrol in major European markets until October 2017; however, the Company expects to apply for pediatric extensions to the term which would extend the date to April 2018. The Company has market exclusivity for Inegy in those markets until April 2019.

In May 2014, Merck announced that the FDA approved Zontivity (vorapaxar) for the reduction of thrombotic cardiovascular events in patients with a history of myocardial infarction or with peripheral arterial disease. The U.S. prescribing information for Zontivity includes a boxed warning regarding bleeding risk. In January 2015, Zontivity was approved by the European Commission (the "EC") for coadministration with acetylsalicylic acid and, where appropriate, clopidogrel, to reduce atherothrombotic events in adult patients with a history of myocardial infarction. Merck currently plans to launch Zontivity in the European Union (the "EU") in late 2015 or early 2016. The Company continues to monitor and assess Zontivity and the related intangible asset. Merck continues to focus on building product awareness in the United States for Zontivity. If the Company's efforts to build product awareness in the United States or the launch in the EU are not successful, the Company may take a non-cash impairment charge with respect to the Zontivity intangible asset which was \$306 million at June 30, 2015.

Diabetes

Worldwide combined sales of Januvia and Janumet, medicines that help lower blood sugar levels in adults with type 2 diabetes, were \$1.6 billion in the second quarter of 2015 and \$3.0 billion for the first six months of 2015, increases of 1% and 3%, respectively, compared with the same periods of 2014. Foreign exchange unfavorably affected global sales performance by 8% and 7% in the second quarter and first six months of 2015, respectively. Sales growth in both periods was driven primarily by higher pricing and higher volumes in the United States, as well as by volume growth of Janumet in the emerging markets and Europe, partially offset by volume declines of co-marketed sitagliptin in Japan.

In June 2015, Merck announced the primary results of the Trial Evaluating Cardiovascular Outcomes with Sitagliptin (TECOS), a placebo-controlled study of the cardiovascular (“CV”) safety of Merck’s DPP-4 inhibitor, Januvia (sitagliptin), added to usual care in more than 14,000 patients. The study achieved its primary composite CV endpoint of non-inferiority (defined as the time to the first confirmed event of any of the following: CV-related death, nonfatal myocardial infarction, nonfatal stroke, or hospitalization for unstable angina) compared to usual care without sitagliptin. In addition, there was no increase in hospitalization for heart failure and rates of all-cause mortality were similar in both treatments groups, which were two key secondary endpoints. These data were presented at the annual scientific meeting of the American Diabetes Association in June 2015.

General Medicine and Women's Health

Worldwide sales of NuvaRing (etonogestrel/ethinyl estradiol vaginal ring), a vaginal contraceptive product, increased 2% in the second quarter of 2015 to \$182 million and grew 1% in the first six months of 2015 to \$348 million compared with the same periods of 2014, primarily reflecting higher pricing in the United States. Foreign exchange unfavorably affected global sales performance by 8% and 6% in the second quarter and first six months of 2015, respectively.

Worldwide sales of Implanon/Nexplanon, single-rod subdermal contraceptive implants, grew 4% to \$124 million in the second quarter of 2015 and increased 18% to \$261 million in the first six months of 2015 compared with the same periods of 2014 driven primarily by higher demand in the United States and, for the year-to-date period, also volume growth in certain emerging markets reflecting timing of government tenders. Foreign exchange unfavorably affected global sales performance by 6% and 5% in the second quarter and first six months of 2015, respectively.

Global sales of Dulera Inhalation Aerosol, a combination medicine for the treatment of asthma, grew 17% to \$120 million in the second quarter of 2015 and rose 22% to \$251 million in the first six months of 2015 compared with the same periods of 2014 driven primarily by higher demand in the United States.

Global sales of Follistim AQ (follitropin beta injection) (marketed in most countries outside the United States as Puregon), a fertility treatment, increased 9% in the second quarter of 2015 to \$111 million compared with the second quarter of 2014 reflecting higher pricing in the United States. Worldwide sales of Follistim AQ declined 9% in the first six months of 2015 to \$193 million compared with the same period of 2014 driven largely by volume declines in the emerging markets, partially offset by higher pricing in the United States. Foreign exchange unfavorably affected global sales performance by 10% and 8% in the second quarter and first six months of 2015, respectively. The patent that provided market exclusivity for Follistim AQ in the United States expired in June 2015.

Hospital and Specialty

Hepatitis

Worldwide sales of PegIntron, a treatment for chronic hepatitis C virus ("HCV"), were \$52 million in the second quarter of 2015 and \$108 million in the first six months of 2015, declines of 50% compared with the corresponding periods of 2014. The sales declines were driven by lower volumes in all regions as the availability of newer therapeutic options continues to reduce market share. Foreign exchange unfavorably affected global sales performance by 6% in the second quarter of 2015 and by 5% in the first six months of 2015.

Worldwide sales of Victrelis, an oral medicine for the treatment of chronic HCV, were \$10 million in the second quarter of 2015 compared with \$46 million in the second quarter of 2014 and were \$17 million in the first six months of 2015 compared with \$105 million in the first six months of 2014. The sales declines were driven by lower volumes in Europe and most of the emerging markets as the availability of newer therapeutic options continues to result in loss of market share.

HIV

Global sales of Isentress, an HIV integrase inhibitor for use in combination with other antiretroviral agents for the treatment of HIV-1 infection, were \$375 million in the second quarter of 2015, a decline of 17% compared with the second quarter of 2014 including a 7% unfavorable effect from foreign exchange. Sales performance reflects lower volumes in the emerging markets driven in part by the timing of shipments in Latin America, as well as volume declines in the United States that were partially offset by higher pricing. Worldwide sales of Isentress were \$760 million in the first six months of 2015, a decrease of 10% compared with the same period of 2014 including an 8% unfavorable effect from foreign exchange. The sales decline was driven primarily by lower volumes in the United States, Europe and the Middle East Africa region, partially offset by higher pricing in the United States and, in the year-to-date period, also by higher volumes in Latin America.

Hospital Acute Care

In January 2015, Merck acquired Cubist, a leader in the development of therapies to treat serious infections caused by a broad range of bacteria. Cubist's products include Cubicin (daptomycin for injection), an I.V. antibiotic for complicated skin and skin structure infections or bacteremia, when caused by designated susceptible organisms. Sales of Cubicin were \$293 million in the second quarter of 2015 and \$480 million subsequent to the acquisition through

June 30, 2015. In many markets outside of the United States, Cubist is commercialized by other companies in accordance with distribution agreements established prior to Merck's acquisition of Cubist. See Note 9 to the interim consolidated financial statements for a discussion of patent litigation related to Cubicin.

Cubist's products also include Zerbaxa (ceftolozane and tazobactam), a combination product approved by the FDA in December 2014 for the treatment of adults with complicated urinary tract infections caused by designated susceptible Gram-negative organisms or with complicated intra-abdominal infections caused by designated susceptible Gram-negative and Gram-positive organisms, and Sivextro (tedizolid phosphate), a product approved by the FDA in June 2014 for the treatment of acute bacterial skin and skin structure infections ("ABSSSI") in adults caused by designated susceptible Gram-positive organisms.

Sivextro was also approved by the EC in March 2015 for the treatment of ABSSSI in adults. The Company began launching Sivextro in the second quarter of 2015. In July 2015, Merck announced that the Committee for Medicinal Products for Human Use (“CHMP”) of the European Medicines Agency (“EMA”) adopted a positive opinion recommending approval of Zerbaxa for the treatment of the following infections in adults: complicated intra-abdominal infections, acute pyelonephritis, and complicated urinary tract infections. The CHMP positive opinion will be reviewed by the EC. If the EC affirms the CHMP opinion, it will grant a centralized marketing authorization with unified labeling that is valid in the 28 countries that are members of the EU, as well as European Economic Area members, Iceland, Liechtenstein and Norway.

Global sales of Cancidas (caspofungin acetate), an anti-fungal product, decreased 14% in the second quarter of 2015 to \$134 million and declined 8% in the first six months of 2015 to \$297 million compared with the same prior year periods. Sales performance in the second quarter and first six months of 2015 reflect 15% and 13% unfavorable effects from foreign exchange, respectively, partially offset by volume growth in certain emerging markets.

Worldwide sales of Noxafil, for the prevention of invasive fungal infections, grew 19% in the second quarter of 2015 to \$117 million and increased 32% in the first six months of 2015 to \$228 million compared with the same periods of 2014 driven by volume growth and higher pricing in the United States and volume growth in Europe reflecting a positive impact from the approval of new formulations. Foreign exchange unfavorably affected global sales performance by 14% in both the second quarter and first six months of 2015.

Bridion (sugammadex) Injection, for the reversal of two types of neuromuscular blocking agents used during surgery, is approved and has been launched in many countries outside of the United States. Sales of Bridion grew 6% to \$87 million in the second quarter of 2015 and rose 11% to \$172 million in the first six months of 2015 compared with the same periods of 2014. Sales growth was driven by volume growth in all markets. Foreign exchange unfavorably affected global sales performance by 21% and 19% in the second quarter and first six months of 2015, respectively. In September 2013, the Company received a Complete Response Letter (“CRL”) from the FDA for the resubmission of the New Drug Application (“NDA”) for Bridion. To address the CRL, the Company conducted a new hypersensitivity study and, in October 2014, resubmitted the NDA to the FDA. In April 2015, the Company received a CRL from the FDA for Bridion in which the FDA requested additional sensitivity analysis related to a hypersensitivity study (Protocol 101). In July 2015, the FDA accepted Merck’s resubmission of the NDA for Bridion with a Prescription Drug User Fee Act (“PDUFA”) action date of December 19, 2015. The FDA plans to hold an advisory committee meeting with respect to Bridion in November 2015.

Immunology

Sales of Remicade, a treatment for inflammatory diseases (marketed by the Company in Europe, Russia and Turkey), were \$455 million in the second quarter of 2015, a decline of 25% compared with the second quarter of 2014, and were \$956 million in the first six months of 2015, a decrease of 21% compared with the same period in 2014. Foreign exchange unfavorably affected sales performance by 18% and 16% in the second quarter and first six months of 2015, respectively. In February 2015, the Company lost market exclusivity for Remicade in major European markets and the Company is experiencing pricing and volume declines in these markets as a result of biosimilar competition and expects the Remicade sales decline to accelerate in the second half of 2015.

Sales of Simponi (golimumab), a once-monthly subcutaneous treatment for certain inflammatory diseases (marketed by the Company in Europe, Russia and Turkey), were \$169 million in the second quarter of 2015 and \$327 million for the first six months of 2015, declines of 3% and 1%, respectively, compared with the same periods in 2014. The sales declines were driven by the unfavorable effects of foreign exchange of 24% and 20% in the second quarter and first six months of 2015, respectively, that were partially offset by higher demand in Europe reflecting in part an ongoing positive impact from the ulcerative colitis indication.

Other

Other products contained in Hospital and Specialty include among others, Invanz (ertapenem sodium) for the treatment of certain infections and Primaxin (imipenem and cilastatin sodium), an anti-bacterial product.

Oncology

Global sales of Emend (aprepitant), for the prevention of chemotherapy-induced and post-operative nausea and vomiting, were \$134 million in the second quarter of 2015, a decline of 7% including a 7% unfavorable effect from foreign exchange. Worldwide sales of Emend were \$255 million in the first six months of 2015, a decline of 4% compared with the same period in 2014 reflecting a 6% unfavorable effect from foreign exchange that was partially offset by higher pricing in the United States.

Sales of Keytruda, an anti-PD-1 (programmed death receptor-1) therapy, were \$110 million in the second quarter of 2015 and \$192 million for the first six months of 2015. In September 2014, the FDA granted accelerated approval of Keytruda at a dose of 2 mg/kg every three weeks for the treatment of patients with unresectable or metastatic melanoma and disease progression following ipilimumab and, if BRAF V600 mutation positive, a BRAF inhibitor. In June 2015, Merck announced that the FDA

accepted for review a supplemental Biologics License Application (“sBLA”) for Keytruda for the treatment of patients with advanced non-small cell lung cancer (“NSCLC”) whose disease has progressed on or after platinum-containing chemotherapy and an FDA-approved therapy for EGFR or ALK genomic tumor aberrations, if present. The FDA granted Priority Review with a PDUFA action date of October 2, 2015. The sBLA will be reviewed under the FDA’s Accelerated Approval program. The Company also submitted data from the KEYNOTE-002 study in ipilimumab-refractory melanoma as part of an sBLA to the FDA.

In March 2015, Merck announced that the randomized, pivotal Phase 3 study (KEYNOTE-006) investigating Keytruda compared to ipilimumab in the first-line treatment of patients with advanced melanoma met its two primary endpoints of progression-free survival and overall survival. The trial will be stopped early based on the recommendation of the study’s independent Data Monitoring Committee. In KEYNOTE-006, Keytruda demonstrated a statistically significant and clinically meaningful improvement in overall survival and progression-free survival compared to ipilimumab. The safety profile of Keytruda in this trial was similar to the safety profile previously reported in advanced melanoma. Keytruda is the first anti-PD-1 therapy to demonstrate a survival advantage compared to the standard of care for the first-line treatment of advanced melanoma. The Company has filed an sBLA with the FDA for Keytruda for the first-line treatment of advanced melanoma based on this data.

In July 2015, Merck announced that the EC approved Keytruda for the treatment of advanced (unresectable or metastatic) melanoma in adults. The EC approval of Keytruda is based on data from three clinical studies conducted in more than 1,500 first-line and previously-treated patients with advanced melanoma. Keytruda received EC regulatory approval based on Phase 3 data which showed it is the first and only anti-PD-1 therapy to provide a statistically superior survival benefit as a monotherapy compared to ipilimumab, the current standard of care for advanced melanoma. The approval allows marketing of Keytruda in all 28 EU member states at the approved dose of 2 mg/kg every three weeks. The Company has made additional regulatory filings in other countries and further filings are planned.

The Keytruda clinical development program includes studies across a broad range of cancer types (see “Research and Development” below).

Other products contained in Oncology include among others, Temodar (temozolomide) (marketed as Temodal outside the United States), a treatment for certain types of brain tumors.

Diversified Brands

Merck’s diversified brands include human health pharmaceutical products that are approaching the expiration of their marketing exclusivity or are no longer protected by patents in developed markets, but continue to be a core part of the Company’s offering in other markets around the world.

Respiratory

Global sales of Nasonex, an inhaled nasal corticosteroid for the treatment of nasal allergy symptoms, declined 16% to \$215 million in the second quarter of 2015 and decreased 11% to \$504 million in the first six months of 2015 compared with the same periods of 2014. Foreign exchange unfavorably affected global sales performance by 5% and 6% in the second quarter and first six months of 2015, respectively. The declines were driven primarily by lower volumes in the United States and Europe that were partially offset by higher pricing in the United States. By agreement, generic manufacturers were able to launch a generic version of Nasonex in most European markets on January 1, 2014 and generic versions of Nasonex have since launched in several of these markets. Accordingly, the Company continues to experience volume declines in Nasonex sales in Europe. In 2009, Apotex Inc. and Apotex Corp. (collectively, “Apotex”) filed an application with the FDA seeking approval to sell its generic version of Nasonex. In June 2012, the U.S. District Court for the District of New Jersey ruled against the Company in a patent infringement suit against Apotex holding that Apotex’s generic version of Nasonex does not infringe on the Company’s formulation patent. In June 2013, the Court of Appeals for the Federal Circuit issued a decision affirming the U.S. District Court decision and the Company has exhausted all of its appeal options. Apotex has not yet launched a generic version of Nasonex in the United States; however, if Apotex’s generic version becomes available, significant losses of U.S. Nasonex sales could occur. U.S. sales of Nasonex were \$267 million for the first six months of 2015.

Worldwide sales of Singulair, a once-a-day oral medicine for the chronic treatment of asthma and for the relief of symptoms of allergic rhinitis, were \$212 million in the second quarter of 2015, a decrease of 25% compared with the second quarter of 2014 including a 9% unfavorable effect from foreign exchange. Global sales of Singulair were \$457 million in the first six months of 2015, a decline of 18% compared with the same period in 2014 including a 10% unfavorable effect from foreign exchange. Sales performance in both periods primarily reflects lower volumes in Japan due to the timing of shipments and lower demand in Europe as a result of generic competition. The Company has lost market exclusivity for Singulair in the United States and in most major international markets with the exception of Japan and expects generic competition in these markets to continue. The patent that provides market exclusivity for Singulair in Japan will expire in 2016.

Other

Global sales of Cozaar (losartan potassium) and Hyzaar (losartan potassium and hydrochlorothiazide) (a combination of Cozaar and hydrochlorothiazide), treatments for hypertension, were \$189 million in the second quarter of 2015 and \$374 million in the first six months of 2015, declines of 12% and 11%, respectively, compared with the same periods of 2014. Foreign exchange unfavorably affected global sales performance by 7% for both the second quarter and first six months of 2015. The sales declines were driven primarily by lower volumes in Japan and Europe that were partially offset by higher demand in China and Latin America. The patents that provided market exclusivity for Cozaar and Hyzaar in the United States and in most major international markets have expired. Accordingly, the Company is experiencing declines in Cozaar and Hyzaar sales and expects the declines to continue.

Other products contained in Diversified Brands include among others, Clarinex (desloratadine), a non-sedating antihistamine; Arcoxia (etoricoxib) for the treatment of arthritis and pain; Fosamax (alendronate sodium) (marketed as Fosamac in Japan) and Fosamax Plus D (alendronate sodium/cholecalciferol) (marketed as Fosavance throughout the EU) for the treatment and, in the case of Fosamax, prevention of osteoporosis; Zocor (simvastatin), a statin for modifying cholesterol; and Propecia (finasteride), a product for the treatment of male pattern hair loss.

Vaccines

The following discussion of vaccines does not include sales of vaccines sold in most major European markets through Sanofi Pasteur MSD ("SPMSD"), the Company's joint venture with Sanofi Pasteur, the results of which are reflected in equity income from affiliates included in Other (income) expense, net (see "Selected Joint Venture and Affiliate Information" below). Supply sales to SPMSD, however, are included.

Merck's sales of Gardasil (Human Papillomavirus Quadrivalent [Types 6, 11, 16 and 18] Vaccine, Recombinant)/Gardasil 9 (Human Papillomavirus 9-valent Vaccine, Recombinant), vaccines to help prevent certain diseases caused by certain types of human papillomavirus ("HPV"), increased 4% in the second quarter of 2015 to \$427 million driven by higher sales in the United States due to pricing. Merck's sales of Gardasil/Gardasil 9 declined 1% in the first six months of 2015 to \$785 million compared with the same prior year period reflecting lower sales in Latin America due to timing of government tenders, partially offset by higher sales in the United States due to pricing. In December 2014, the Company announced that the FDA approved Gardasil 9, Merck's 9-valent HPV vaccine, for use in girls and young women 9 to 26 years of age for the prevention of cervical, vulvar, vaginal, and anal cancers caused by HPV types 16, 18, 31, 33, 45, 52 and 58, pre-cancerous or dysplastic lesions caused by HPV types 6, 11, 16, 18, 31, 33, 45, 52, and 58, and genital warts caused by HPV types 6 and 11. Gardasil 9 is also approved for use in boys 9 to 15 years of age for the prevention of anal cancer caused by HPV types 16, 18, 31, 33, 45, 52 and 58, precancerous or dysplastic lesions caused by HPV types 6, 11, 16, 18, 31, 33, 45, 52 and 58, and genital warts caused by HPV types 6 and 11. Gardasil 9 includes the greatest number of HPV types in any available HPV vaccine.

Merck's sales of ProQuad, a pediatric combination vaccine to help protect against measles, mumps, rubella and varicella, were \$136 million in the second quarter of 2015 compared with \$94 million in the second quarter of 2014 and were \$221 million in the first six months of 2015 compared with \$159 million in the first six months of 2014. Sales growth in the second quarter and first six months of 2015 reflects higher public sector purchases and, for the year-to-date period, also higher demand resulting from measles outbreaks in the United States. Merck's sales of M M R II, a vaccine to help protect against measles, mumps and rubella, were \$75 million for the second quarter of 2015 compared with \$85 million for the second quarter of 2014 and were \$182 million in the first six months of 2015 compared with \$163 million in the first six months of 2014. Sales growth for M-M-R II in the year-to-date period was driven primarily by higher sales in the United States reflecting higher demand resulting from measles outbreaks and higher pricing. Merck's sales of Varivax, a vaccine to help prevent chickenpox (varicella), were \$147 million for the second quarter of 2015 compared with \$148 million for the second quarter of 2014 and were \$302 million in the first six months of 2015 compared with \$284 million in the first six months of 2014. Sales growth in the first six months of 2015 reflects higher volumes in certain emerging markets.

Merck's sales of RotaTeq, a vaccine to help protect against rotavirus gastroenteritis in infants and children, were \$89 million in the second quarter of 2015, a decline of 40% compared with the second quarter of 2014 including a 4% unfavorable effect from foreign exchange. Merck's sales of RotaTeq were \$281 million in the first six months of 2015,

a decrease of 11% compared with the same period of 2014 including a 3% unfavorable effect from foreign exchange. The sales decline in both periods was primarily driven by the effects of public sector purchasing in the United States. Merck's sales of Zostavax (Zoster Vaccine Live), a vaccine to help prevent shingles (herpes zoster) in adults 50 years of age and older, were \$149 million in the second quarter of 2015, a decline of 4% compared with the second quarter of 2014 including a 1% unfavorable effect from foreign exchange, driven by lower volumes in the United States that were partially offset by higher pricing. Merck's sales of Zostavax were \$324 million in the first six months of 2015, an increase of 9% compared with the same period of 2014 including a 1% unfavorable effect from foreign exchange, primarily reflecting higher demand and higher pricing in the United States, as well as higher volumes in Canada. The Company is continuing to educate U.S. customers on the

broad managed care coverage for Zostavax and the process for obtaining reimbursement. Merck is continuing to launch Zostavax outside of the United States.

Other Segments

The Company's other segments are the Animal Health and Alliances segments, which are not material for separate reporting. Prior to its disposition on October 1, 2014, the Company also had a Consumer Care segment which had sales of \$583 million and \$1.1 billion in the second quarter and first six months of 2014, respectively.

Animal Health

Animal Health includes pharmaceutical and vaccine products for the prevention, treatment and control of disease in all major farm and companion animal species. Animal Health sales are affected by competition and the frequent introduction of generic products. Global sales of Animal Health products totaled \$840 million for the second quarter of 2015, a decline of 4% compared with the second quarter of 2014 including a 14% unfavorable effect from foreign exchange. Sales of Animal Health products were \$1.7 billion for the first six months of 2015, a decline of 1% compared with the first six months of 2014 including a 13% unfavorable effect from foreign exchange. Sales performance in both periods reflects volume growth in companion animal products, driven primarily by higher sales of Bravecto (fluralaner) chewable tablets for dogs to treat fleas and ticks that began launching in Europe and the United States in the second quarter of 2014, as well as higher sales of swine products.

Alliances

The alliances segment includes results from the Company's relationship with AZLP. On June 30, 2014, AstraZeneca exercised its option to buy Merck's interest in a subsidiary and, through it, Merck's interest in Nexium and Prilosec. As a result, as of July 1, 2014, the Company no longer records equity income from AZLP and supply sales to AZLP, primarily relating to sales of Nexium and Prilosec, have terminated (see "Selected Joint Venture and Affiliate Information" below). Revenue from AZLP was \$316 million and \$463 million in the second quarter and first six months of 2014, respectively.

Costs, Expenses and Other

In 2013, the Company initiated actions under a global restructuring program (the "2013 Restructuring Program") as part of a global initiative to sharpen its commercial and research and development focus. As part of the program, the Company expects to reduce its total workforce by approximately 8,500 positions. These workforce reductions will primarily come from the elimination of positions in sales, administrative and headquarters organizations, as well as research and development. The Company will also reduce its global real estate footprint and continue to improve the efficiency of its manufacturing and supply network. The Company will continue to hire employees in strategic growth areas of the business as necessary. The Company recorded total pretax costs of \$159 million and \$229 million in the second quarter of 2015 and 2014, respectively, and \$217 million and \$389 million in the first six months of 2015 and 2014, respectively, related to this restructuring program. The actions under the 2013 Restructuring Program are expected to be substantially completed by the end of 2015 with the cumulative pretax costs estimated to be approximately \$3.0 billion. The Company estimates that approximately two-thirds of the cumulative pretax costs will result in cash outlays, primarily related to employee separation expense. Approximately one-third of the cumulative pretax costs are non-cash, relating primarily to the accelerated depreciation of facilities to be closed or divested. The Company expects the actions under the 2013 Restructuring Program to result in annual net cost savings of approximately \$2.0 billion by the end of 2015. The Company anticipates that the actions under the 2013 Restructuring Program, combined with actions under the Merger Restructuring Program (discussed below), will result in annual net cost savings of \$2.5 billion by the end of 2015 compared with full-year 2012 expense levels.

In 2010, subsequent to the Merck and Schering-Plough Corporation ("Schering-Plough") merger (the "Merger"), the Company commenced actions under a global restructuring program (the "Merger Restructuring Program") designed to streamline the cost structure of the combined company. Further actions under this program were initiated in 2011. The actions under this program primarily reflect the elimination of positions in sales, administrative and headquarters organizations, as well as from the sale or closure of certain manufacturing and research and development sites and the consolidation of office facilities. The Company recorded total pretax costs of \$169 million and \$192 million in the second quarter of 2015 and 2014, respectively, and \$336 million and \$358 million in the first six months of 2015 and

2014, respectively, related to this restructuring program. The non-manufacturing related restructuring actions under the Merger Restructuring Program were substantially completed by the end of 2013. The remaining actions under this program primarily relate to ongoing manufacturing facility rationalizations, which are expected to be substantially completed by the end of 2016. The Company expects the estimated total cumulative pretax costs for this program to be approximately \$8.5 billion. The Company estimates that approximately two-thirds of the cumulative pretax costs relate to cash outlays, primarily related to employee separation expense. Approximately one-third of the cumulative pretax costs are non-cash, relating primarily to the accelerated depreciation of facilities to be closed or divested. The Company expects the Merger Restructuring Program to yield annual savings upon completion of the program of approximately \$4.0 billion to \$4.6 billion.

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The Company anticipates that total costs associated with restructuring activities in 2015 for both the 2013 Restructuring Program and the Merger Restructuring Program will be in the range of \$850 million to \$950 million. The costs associated with all of these restructuring activities are primarily comprised of accelerated depreciation recorded in Materials and production, Marketing and administrative and Research and development and separation costs recorded in Restructuring costs (see Note 2 to the interim consolidated financial statements).

Materials and Production

Materials and production costs were \$3.8 billion for the second quarter of 2015, a decrease of 23% compared with the second quarter of 2014 and were \$7.3 billion in the first six months of 2015, a decline of 17% compared with the same period of 2014. Costs in the second quarter of 2015 and 2014 include \$1.2 billion and \$1.1 billion, respectively, and for the first six months of 2015 and 2014 include \$2.4 billion and \$2.2 billion, respectively, of expenses for the amortization of intangible assets recognized in connection with acquisitions. In addition, expenses for the second quarter and first six months of 2015 include \$44 million and \$65 million, respectively, of amortization of purchase accounting adjustments to Cubist's inventories. In addition, costs include intangible asset impairment charges of \$12 million for the first six months of 2015 and \$660 million for the second quarter and first six months of 2014 (see Note 6 to the interim consolidated financial statements). Included in materials and production costs are costs associated with restructuring activities which amounted to \$105 million and \$171 million in the second quarter of 2015 and 2014, respectively, and \$210 million and \$290 million in the first six months of 2015 and 2014, respectively, including accelerated depreciation and asset write-offs related to the planned sale or closure of manufacturing facilities. Separation costs associated with manufacturing-related headcount reductions have been incurred and are reflected in Restructuring costs as discussed below.

Gross margin was 61.6% in the second quarter of 2015 compared with 55.2% in the second quarter of 2014 and was 61.9% in the first six months of 2015 compared with 58.5% in the first six months of 2014. The amortization of intangible assets and purchase accounting adjustments to inventories, as well as the restructuring and impairment charges noted above reduced gross margin by 13.8 and 17.4 percentage points for the second quarter of 2015 and 2014, respectively, and by 14.0 and 14.8 percentage points for the first six months of 2015 and 2014, respectively. Excluding the impact of these items, the gross margin increase in the second quarter and first six months of 2015 compared with the corresponding prior year periods was driven primarily by lower inventory discards and the favorable effects of foreign exchange. In addition, in the first six months of 2015, product mix, including the impacts of acquisitions and divestitures, also contributed to the gross margin improvement.

Marketing and Administrative

Marketing and administrative expenses decreased 12% to \$2.6 billion in the second quarter of 2015 compared with the second quarter of 2014 and declined 8% to \$5.2 billion in the first six months of 2015 compared with the same period of 2014. The declines largely reflect the prior year divestiture of MCC, favorable effects from foreign exchange, as well as lower selling costs, partially offset by higher promotional spending largely related to product launches, as well as higher costs related to the January acquisition of Cubist. Expenses for the second quarter of 2015 and 2014 include \$17 million and \$44 million, respectively, and for the first six months of 2015 and 2014 include \$53 million and \$75 million, respectively, of restructuring costs, related primarily to accelerated depreciation for facilities to be closed or divested. Separation costs associated with sales force reductions have been incurred and are reflected in Restructuring costs as discussed below. Marketing and administrative expenses also include acquisition and divestiture-related costs of \$136 million and \$32 million in the second quarter of 2015 and 2014, respectively, and \$363 million and \$43 million in the first six months of 2015 and 2014, respectively, consisting of integration, transaction, and certain other costs related to business acquisitions, including severance costs which are not part of the Company's formal restructuring programs, as well as transaction and certain other costs related to divestitures.

Research and Development

Research and development expenses were \$1.7 billion for the second quarter of 2015, essentially flat compared with the second quarter of 2014, reflecting acquired in-process research and development ("IPR&D") impairment charges and higher costs related to the acquisition of Cubist that were largely offset by the favorable effects of foreign exchange and the prior year divestiture of MCC. Research and development expenses were \$3.4 billion for the first six

months of 2015, an increase of 5% compared with the same period in 2014, driven primarily by higher licensing costs, higher expenses related to the fair value measurement of contingent consideration, IPR&D impairment charges and increased expenses related to the acquisition of Cubist, partially offset by the favorable effects of foreign exchange, the prior year divestiture of MCC and lower restructuring costs.

Research and development expenses are comprised of the costs directly incurred by Merck Research Laboratories (“MRL”), the Company’s research and development division that focuses on human health-related activities, which were approximately \$980 million and \$900 million in the second quarter of 2015 and 2014, respectively, and were \$1.9 billion and \$1.8 billion for the first six months of 2015 and 2014, respectively. Also included in research and development expenses are costs incurred by other divisions in support of research and development activities, including depreciation, production and general and administrative, as well as licensing activity, and certain costs from operating segments, including the Pharmaceutical and Animal

Health segments, which in the aggregate were approximately \$600 million and \$720 million for the second quarter of 2015 and 2014, respectively, and \$1.4 billion for both the first six months of 2015 and 2014. Research and development expenses also include IPR&D impairment charges of \$59 million and \$61 million in the second quarter and first six months of 2015, respectively, (see Note 6 to the interim consolidated financial statements). In addition, during the second quarter and first six months of 2015, the Company recorded charges of \$12 million and \$73 million, respectively, to increase the estimated fair value of liabilities for contingent consideration (see Note 4 to the interim consolidated financial statements). Research and development expenses also reflect accelerated depreciation and asset abandonment costs associated with restructuring activities of \$15 million and \$43 million in the second quarter of 2015 and 2014, respectively, and \$17 million and \$94 million for the first six months of 2015 and 2014, respectively.

Restructuring Costs

Restructuring costs, primarily representing separation and other related costs associated with restructuring activities, were \$191 million and \$163 million for the second quarter of 2015 and 2014, respectively, and were \$273 million and \$288 million for the first six months of 2015 and 2014, respectively. Costs in the second quarter of 2015 and 2014 include \$106 million and \$42 million, respectively, and in the first six months of 2015 and 2014 include \$123 million and \$48 million, respectively, of costs related to the 2013 Restructuring Program. The remaining costs in 2015 and 2014 related to the Merger Restructuring Program. Separation costs were incurred associated with actual headcount reductions, as well as estimated expenses under existing severance programs for headcount reductions that were probable and could be reasonably estimated. Merck eliminated approximately 860 positions in the second quarter of 2015 (460 related to the 2013 Restructuring Program and 400 related to the Merger Restructuring Program). During the first six months of 2015, Merck eliminated approximately 1,950 positions (1,195 related to the 2013 Restructuring Program and 755 related to the Merger Restructuring Program). Merck eliminated approximately 1,805 positions in the second quarter of 2014 (1,375 related to the 2013 Restructuring Program and 430 related to the Merger Restructuring Program) and 3,385 positions in the first six months of 2014 (2,595 related to the 2013 Restructuring Program and 790 related to the Merger Restructuring Program). These position eliminations are comprised of actual headcount reductions, and the elimination of contractors and vacant positions. Also included in restructuring costs are curtailment, settlement and termination charges associated with pension and other postretirement benefit plans, share-based compensation and shutdown costs. For segment reporting, restructuring costs are unallocated expenses. Additional costs associated with the Company's restructuring activities are included in Materials and production, Marketing and administrative and Research and development as discussed above.

Other (Income) Expense, Net

Other (income) expense, net was \$739 million of expense in the second quarter of 2015 compared with \$650 million of income in the second quarter of 2014 driven primarily by foreign exchange losses of \$715 million in 2015 related to the revaluation of the Company's net monetary assets in Venezuela (as discussed below), lower equity income from AZLP and a gain of \$741 million in 2014 related to AstraZeneca's option exercise (see Note 7 to the interim consolidated financial statements). Other (income) expense, net in the first six months of 2015 was \$793 million of expense compared with \$813 million of income in the same period of 2014 driven primarily by the foreign exchange losses related to Venezuela in 2015, lower equity income from AZLP and the gain on AstraZeneca's option exercise in 2014 noted above, as well as gains of \$204 million in 2014 related to the sale of the Company's Sirna Therapeutics, Inc. ("Sirna") subsidiary (see Note 3 to the interim consolidated financial statements) and an expense in 2015 of \$78 million for a contribution of investments in equity securities to the Merck Company Foundation, partially offset by higher equity income from certain research investment funds and the recognition of deferred income.

In March 2013, the Venezuelan government announced the creation of a foreign exchange mechanism called the "Complimentary System of Foreign Currency Acquirement" (known as SICAD1) that operates similar to an auction system and allows entities in specific sectors to bid for U.S. dollars to be used for payments related to international investments and certain intangibles. In March 2014, the Venezuelan government launched another foreign exchange mechanism (known as SICAD2) and indicated that all industry sectors would be able to access SICAD2 and its use would not be restricted as to purpose. Neither SICAD1 nor SICAD2 eliminated or changed the official rate of 6.30 VEF per U.S. dollar. In February 2015, the Venezuelan government replaced SICAD2 with the Sistema Marginal de

Divisas (known as SIMADI). The SIMADI market is intended to operate based on the principles of supply and demand with buyers and sellers exchanging offers to transact. The SICAD1 mechanism remains unchanged. Announcements by the Venezuelan government have indicated that essential goods, including food and medicine, will remain at the official rate of 6.30 VEF per U.S. dollar. Both the SICAD1 and SIMADI average rates are published by the Central Bank of Venezuela and at June 30, 2015, the average exchange rates inferred were 12.80 VEF per U.S. dollar and 197.30 VEF per U.S. dollar, respectively.

Year-to-date through June 30, 2015, the Company has received approximately \$36 million from Venezuela for transactions that were settled at the official rate of 6.30 VEF per U.S. dollar. During the second quarter of 2015, upon evaluation of evolving economic conditions in Venezuela and volatility in the country, the Company determined it was unlikely that all outstanding net monetary assets would be settled at the official rate. Accordingly, during the second quarter of 2015, the Company recorded a charge of \$715 million within Other (income) expense, net to revalue its net monetary assets in Venezuela to an amount that represents the Company's estimate of the U.S. dollar amount that will ultimately be collected. At June 30, 2015, the Company

had approximately \$280 million (U.S. dollar equivalent) of remaining net monetary assets in its Venezuelan entities, of which the large majority was cash. While the remaining net monetary assets at June 30, 2015 include the Company's estimate of the U.S. dollar amount that will be collected, it is possible that not all of these amounts will be collected and the Company may record additional charges in the future. The Company will work with the government of Venezuela to continue to import essential medicines into the country and to ensure continued positive U.S. dollar cash flows from Merck's operations.

Segment Profits

	Three Months Ended	Six Months Ended
	June 30,	June 30,
(\$ in millions)	2015	