

HANOVER INSURANCE GROUP, INC.

Form 10-Q

November 04, 2016

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 September 30, 2016

or

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

For the transition period from _____ to _____

Commission File Number 1-13754

THE HANOVER INSURANCE GROUP, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

04-3263626
(I.R.S. Employer
Identification No.)

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440 Lincoln Street, Worcester, Massachusetts 01653

(Address of principal executive offices) (Zip Code)

(508) 855-1000

(Registrant's telephone number, including area code)

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

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

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

Large accelerated filer

Accelerated filer

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

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

The number of shares outstanding of the registrant's common stock was 42,543,286 as of November 2, 2016.

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ITEM 1 - FINANCIAL STATEMENTSTHE HANOVER INSURANCE GROUP, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF INCOME (UNAUDITED)

(In millions, except per share data)	Three Months Ended		Nine Months Ended	
	September 30, 2016	2015	September 30, 2016	2015
Revenues				
Premiums	\$ 1,160.9	\$ 1,150.1	\$ 3,457.7	\$ 3,566.9
Net investment income	67.8	68.3	205.2	209.1
Net realized investment gains (losses):				
Net realized gains from sales and other	4.3	12.2	31.0	38.8

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Net other-than-temporary impairment losses on investments recognized in earnings	(0.1)	(4.2)	(26.0)	(8.8)
Total net realized investment gains	4.2	8.0	5.0	30.0
Fees and other income	8.3	7.1	22.9	23.3
Total revenues	1,241.2	1,233.5	3,690.8	3,829.3
Losses and expenses				
Losses and loss adjustment expenses	692.0	690.7	2,121.3	2,208.7
Amortization of deferred acquisition costs	257.9	259.0	771.4	781.6
Interest expense	12.5	14.8	42.8	45.9
Gain on disposal of U.K. motor business	(0.1)	-	(1.3)	(37.7)
Net loss from repayment of debt	-	5.6	86.1	24.1
Other operating expenses	154.8	153.0	445.4	466.7
Total losses and expenses	1,117.1	1,123.1	3,465.7	3,489.3
Income before income taxes	124.1	110.4	225.1	340.0
Income tax expense (benefit):				
Current	8.0	11.8	47.9	46.7
Deferred	27.8	21.4	8.9	40.3
Total income tax expense	35.8	33.2	56.8	87.0
Income from continuing operations	88.3	77.2	168.3	253.0
Net gain from discontinued operations (net of tax (expense) benefit of \$(0.1) and \$0.3 for the three months ended September 30, 2016 and September 30, 2015 and \$2.1 and \$0.5 for the nine months ended September 30, 2016 and September 30, 2015, respectively)	0.1	1.1	0.3	0.9
Net income	\$ 88.4	\$ 78.3	\$ 168.6	\$ 253.9
Earnings per common share:				
Basic:				
Income from continuing operations	\$ 2.07	\$ 1.75	\$ 3.93	\$ 5.73
Net gain from discontinued operations	-	0.03	0.01	0.02
Net income per share	\$ 2.07	\$ 1.78	\$ 3.94	\$ 5.75
Weighted average shares outstanding	42.7	44.0	42.8	44.1
Diluted:				
Income from continuing operations	\$ 2.06	\$ 1.72	\$ 3.89	\$ 5.62
Net gain from discontinued operations	-	0.02	-	0.02
Net income per share	\$ 2.06	\$ 1.74	\$ 3.89	\$ 5.64
Weighted average shares outstanding	43.0	44.9	43.3	45.0

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

THE HANOVER INSURANCE GROUP, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (UNAUDITED)

(In millions)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Net income	\$ 88.4	\$ 78.3	\$ 168.6	\$ 253.9
Other comprehensive (loss) income, net of tax:				
Available-for-sale securities:				
Net (depreciation) appreciation during the period	(3.6)	(31.2)	164.2	(94.7)
Change in other-than-temporary impairment losses recognized in other comprehensive income	1.6	(3.9)	7.3	(8.3)
Total available-for-sale securities	(2.0)	(35.1)	171.5	(103.0)
Pension and postretirement benefits:				
Net actuarial losses and prior service costs arising in the period	-	-	-	(1.4)
Amortization recognized as net periodic benefit and postretirement cost	1.5	1.7	4.8	6.8
Total pension and postretirement benefits	1.5	1.7	4.8	5.4
Cumulative foreign currency translation adjustment:				
Amount recognized as cumulative foreign currency translation during the period	(1.9)	(2.6)	(3.2)	(4.8)
Total other comprehensive (loss) income, net of tax	(2.4)	(36.0)	173.1	(102.4)
Comprehensive income	\$ 86.0	\$ 42.3	\$ 341.7	\$ 151.5

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

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CONSOLIDATED BALANCE SHEETS (UNAUDITED)

(In millions, except share data)	September 30, 2016	December 31, 2015
Assets		
Investments:		
Fixed maturities, at fair value (amortized cost of \$7,100.4 and \$6,934.0)	\$ 7,400.2	\$ 6,983.4
Equity securities, at fair value (cost of \$533.6 and \$528.5)	612.5	576.6
Other investments	483.4	393.4
Total investments	8,496.1	7,953.4
Cash and cash equivalents	315.9	338.8
Accrued investment income	62.5	62.9
Premiums and accounts receivable, net	1,534.9	1,391.7
Reinsurance recoverable on paid and unpaid losses and unearned premiums	2,655.1	2,635.0
Deferred acquisition costs	537.4	508.8
Deferred income taxes	16.2	137.9
Goodwill	185.1	186.0
Other assets	476.5	483.7
Assets of discontinued operations	84.0	83.0
Total assets	\$ 14,363.7	\$ 13,781.2
Liabilities		
Loss and loss adjustment expense reserves	\$ 6,802.3	\$ 6,574.4
Unearned premiums	2,684.8	2,540.8
Expenses and taxes payable	662.3	724.9
Reinsurance premiums payable	283.7	205.2
Debt	797.9	803.1
Liabilities of discontinued operations	87.0	88.4
Total liabilities	11,318.0	10,936.8
Commitments and contingencies		
Shareholders' Equity		
Preferred stock, par value \$0.01 per share; 20.0 million shares authorized; none issued	-	-
Common stock, par value \$0.01 per share; 300.0 million shares authorized; 60.5 million shares issued	0.6	0.6
Additional paid-in capital	1,838.9	1,833.5
Accumulated other comprehensive income	227.0	53.9
Retained earnings	1,910.4	1,803.5
Treasury stock at cost (18.2 and 17.5 million shares)	(931.2)	(847.1)
Total shareholders' equity	3,045.7	2,844.4
Total liabilities and shareholders' equity	\$ 14,363.7	\$ 13,781.2

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

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THE HANOVER INSURANCE GROUP, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF SHAREHOLDERS' EQUITY (UNAUDITED)

(In millions)	Nine Months Ended	
	September 30, 2016	2015
Preferred Stock		
Balance at beginning and end of period	\$ -	\$ -
Common Stock		
Balance at beginning and end of period	0.6	0.6
Additional Paid-in Capital		
Balance at beginning of period	1,833.5	1,830.7
Employee and director stock-based awards and other	5.4	2.8
Balance at end of period	1,838.9	1,833.5
Accumulated Other Comprehensive Income (Loss), net of tax		
Net Unrealized Appreciation (Depreciation) on Investments:		
Balance at beginning of period	149.9	300.9
Net appreciation (depreciation) on available-for-sale securities	171.5	(103.0)
Balance at end of period	321.4	197.9
Defined Benefit Pension and Postretirement Plans:		
Balance at beginning of period	(78.6)	(84.3)
Net amount arising in the period	-	(1.4)
Net amount recognized as net periodic benefit cost	4.8	6.8
Balance at end of period	(73.8)	(78.9)
Cumulative Foreign Currency Translation Adjustment:		
Balance at beginning of period	(17.4)	(10.2)
Amount recognized as cumulative foreign currency translation during the period	(3.2)	(4.8)
Balance at end of period	(20.6)	(15.0)
Total accumulated other comprehensive income	227.0	104.0
Retained Earnings		
Balance at beginning of period	1,803.5	1,558.7
Net income	168.6	253.9
Dividends to shareholders	(59.2)	(54.3)
Stock-based compensation	(2.5)	(8.5)
Balance at end of period	1,910.4	1,749.8
Treasury Stock		
Balance at beginning of period	(847.1)	(752.4)
Shares purchased at cost	(105.2)	(85.3)
Net shares reissued at cost under employee stock-based compensation plans	21.1	27.3
Balance at end of period	(931.2)	(810.4)
Total shareholders' equity	\$ 3,045.7	\$ 2,877.5

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

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THE HANOVER INSURANCE GROUP, INC. AND SUBSIDIARIES
CONSOLIDATED STATEMENTS OF CASH FLOWS (UNAUDITED)

(In millions)	Nine Months Ended September 30, 2016	2015
Cash Flows From Operating Activities		
Net income	\$ 168.6	\$ 253.9
Adjustments to reconcile net income to net cash provided by operating activities:		
Gain on disposal of U.K. motor business	(1.3)	(37.7)
Net loss from repayment of debt	86.1	24.1
Net realized investment gains	(5.1)	(29.6)
Net amortization and depreciation	24.6	22.8
Stock-based compensation expense	8.5	9.4
Amortization of defined benefit plan costs	7.5	10.0
Deferred income tax expense	10.1	40.3
Change in deferred acquisition costs	(27.8)	(21.6)
Change in premiums receivable, net of reinsurance premiums payable	(84.7)	(114.6)
Change in loss, loss adjustment expense and unearned premium reserves	512.5	323.8
Change in reinsurance recoverable	(102.9)	(123.0)
Change in expenses and taxes payable	(31.2)	(5.1)

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Other, net	(6.8)	1.7
Net cash provided by operating activities	558.1	354.4
Cash Flows From Investing Activities		
Proceeds from disposals and maturities of fixed maturities	1,190.3	1,272.9
Proceeds from disposals of equity securities and other investments	226.1	243.1
Purchase of fixed maturities	(1,443.1)	(1,376.3)
Purchase of equity securities and other investments	(292.2)	(285.8)
Cash received from disposal of U.K. motor business, net of cash transferred	-	44.3
Capital expenditures	(12.2)	(14.5)
Other investing activities	12.1	4.5
Net cash used in investing activities	(319.0)	(111.8)
Cash Flows From Financing Activities		
Proceeds from exercise of employee stock options	14.8	14.3
Proceeds from debt borrowings, net	370.5	-
Change in cash collateral related to securities lending program	(9.6)	14.1
Dividends paid to shareholders	(59.2)	(54.3)
Repayment of debt	(461.3)	(114.3)
Repurchases of common stock	(105.2)	(85.3)
Other financing activities	(9.8)	(3.7)
Net cash used in financing activities	(259.8)	(229.2)
Effect of exchange rate changes on cash	(2.2)	(1.6)
Net change in cash and cash equivalents	(22.9)	11.8

Cash and cash equivalents, beginning of period	338.8	373.3
Cash and cash equivalents, end of period	\$ 315.9	\$ 385.1

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

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THE HANOVER INSURANCE GROUP, INC. AND SUBSIDIARIES

NOTES TO INTERIM CONSOLIDATED FINANCIAL STATEMENTS (UNAUDITED)

1. Basis of Presentation and Principles of Consolidation

The accompanying unaudited consolidated financial statements of The Hanover Insurance Group, Inc. and subsidiaries (“THG” or the “Company”) have been prepared in accordance with generally accepted accounting principles in the United States of America (“U.S. GAAP”) for interim financial information and with the requirements of Form 10-Q. Certain financial information that is provided in annual financial statements, but is not required in interim reports, has been omitted.

The interim consolidated financial statements of THG include the accounts of The Hanover Insurance Company (“Hanover Insurance”) and Citizens Insurance Company of America, THG’s principal U.S. domiciled property and casualty companies; Chaucer Holdings Limited (“Chaucer”), a specialist insurance underwriting group which operates through the Society and Corporation of Lloyd’s (“Lloyd’s”) and certain other insurance and non-insurance subsidiaries. These legal entities conduct their operations through several business segments discussed in Note 9 – “Segment Information”. Additionally, the interim consolidated financial statements include the Company’s discontinued operations, consisting primarily of the Company’s former life insurance businesses and its accident and health business. All intercompany accounts and transactions have been eliminated.

The preparation of financial statements in conformity with U.S. GAAP requires the Company to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amount of revenues and expenses during the reporting period. Actual results could differ from those estimates.

In the opinion of the Company’s management, the accompanying interim consolidated financial statements reflect all adjustments, consisting of normal recurring items, necessary for a fair presentation of the financial position and results of operations. The results of operations for the three and nine months ended September 30, 2016 are not necessarily indicative of the results to be expected for the full year. These financial statements should be read in conjunction with the Company’s 2015 Annual Report on Form 10-K filed with the Securities and Exchange Commission (“SEC”) on February 25, 2016.

2. New Accounting Pronouncements

Recently Implemented Standards

In April 2015, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Codification (“ASC”) Update No. 2015-03, (Subtopic 835-30) Interest-Imputation of Interest: Simplifying the Presentation of Debt Issuance Costs. This ASC update requires that debt issuance costs be presented in the balance sheet as a direct deduction from the carrying amount of a debt liability, consistent with debt discounts or premiums, and amortization of debt issuance cost shall be reported as interest expense. The recognition and measurement guidance for debt issuance costs are not affected by the amendments in this ASC update. The updated guidance is to be applied on a retrospective basis and early adoption is permitted. The update is effective for financial statements issued for fiscal years beginning after December 15, 2015, and interim periods within those fiscal years. The Company implemented this guidance effective January 1, 2016. The effect of implementing this guidance was not material to the Company’s financial position or results of operations.

Recently Issued Standards

In October 2016, the FASB issued ASC Update No. 2016-16, (Topic 740) Income Taxes – Intra-Entity Transfers of Assets Other Than Inventory. Under current GAAP, the tax effects of intra-entity transfers of assets (intercompany sales) are deferred until the assets are sold to an outside party or otherwise recovered through use. This ASC update eliminates this deferral of taxes for assets other than inventory and requires the recognition of taxes when the transfer occurs. The updated guidance is effective for interim and annual periods beginning after December 15, 2017, and should be applied on a modified retrospective basis through a cumulative-effect adjustment to retained earnings. Early adoption is permitted, but this election must be made in the first interim period of the adoption year. The Company is currently evaluating the impact of the adoption of ASC Update No. 2016-16.

In August 2016, the FASB issued ASC Update No. 2016-15, (Topic 230) Classification of Certain Cash Receipts and Cash Payments. This ASC update provides specific guidance on the presentation of certain cash flow items where there is currently diversity in practice, including, but not limited to, debt prepayment or debt extinguishment costs, contingent consideration payments made after a business combination, proceeds from the settlement of insurance claims, and distributions received from equity method investees. The updated guidance is effective for interim and annual periods beginning after December 15, 2017, and should be applied retrospectively unless impracticable. Early adoption is permitted. The Company is currently evaluating the impact of the adoption of ASC Update No. 2016-15.

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In June 2016, the FASB issued ASC Update No. 2016-13, (Topic 326) Financial Instruments – Credit Losses: Measurement of Credit Losses on Financial Instruments. This ASC update introduces new guidance for the accounting for credit losses on financial instruments within its scope. A new model, referred to as the current expected credit losses model, requires an entity to determine credit-related impairment losses for financial instruments held at amortized cost and to estimate these expected credit losses over the life of an exposure (or pool of exposures). The estimate of expected credit losses should consider both historical and current information, reasonable and supportable forecasts, as well as estimates of prepayments. The estimated credit losses and subsequent adjustment to such loss estimates, will be recorded through an allowance account which is deducted from the amortized cost of the financial instrument, with the offset recorded in current earnings. ASC Update No. 2016-13 also modifies the impairment model for available-for-sale debt securities. The new model will require an estimate of expected credit losses only when the fair value is below the amortized cost of the asset, thus the length of time the fair value of an available-for-sale debt security has been below the amortized cost will no longer affect the determination of whether a credit loss exists. In addition, credit losses on available-for-sale debt securities will be limited to the difference between the security's amortized cost basis and its fair value. The updated guidance is effective for fiscal years beginning after December 15, 2019, including interim periods within those fiscal years. Early adoption is permitted for periods beginning after December 15, 2018. The Company is evaluating the impact of the adoption of ASC Update No. 2016-13 on its financial position and results of operations.

In March 2016, the FASB issued ASC Update No. 2016-09, (Topic 718) Compensation – Stock Compensation: Improvements to Employee Share-Based Payment Accounting. This ASC update requires all excess tax benefits and tax deficiencies to be recognized as income tax expense or benefit in the income statement, and be treated as discreet items in the reporting period in which they occur. Additionally, excess tax benefits will be classified with other income tax cash flows as an operating activity and cash paid by an employer when directly withholding shares for tax withholding purposes will be classified as a financing activity. Awards that are used to settle employee tax liabilities will be allowed to qualify for equity classification for withholdings up to the maximum statutory tax rates in applicable jurisdictions. Regarding forfeitures, a company can make an entity-wide accounting policy election to either continue estimating the number of awards that are expected to vest or account for forfeitures when they occur. The updated guidance is effective for annual periods beginning after December 15, 2016 and interim periods within those annual periods. Early adoption is permitted. The Company does not expect that adoption of ASC Update No. 2016-09 will have a material effect on its financial position. The effect this guidance will have on the Company's results of operations is dependent on the future tax benefits or deficiencies that are recognized related to stock-based compensations awards, and could be material in any one quarterly or annual period.

In February 2016, the FASB issued ASC Update No. 2016-02, (Topic 842) Leases. This ASC update requires a lessee to recognize a right-of-use asset, which represents the lessee's right to use a specified asset for the lease term, and a corresponding lease liability, which represents a lessee's obligation to make lease payments arising from a lease, measured on a discounted basis, for all leases that extend beyond 12 months. For finance or capital leases, interest on the lease liability will be recognized separately from amortization of the right-of-use asset in the statements of income and comprehensive income. In addition, the repayment of the principal portion of the lease liability will be classified as a financing activity while the interest component will be included in the operating section of the statement of cash flows. For operating leases, the asset and liability will be amortized as a single lease cost, such that the cost of the lease is allocated over the lease term, on a generally straight-line basis, with all cash flows included within operating activities in the statement of cash flows. The updated guidance is effective for interim and annual periods beginning after December 15, 2018, and is required to be implemented by applying a modified retrospective transition approach. The Company is evaluating the impact of the adoption of ASC Update No. 2016-02 on its financial position and results of operations.

In January 2016, the FASB issued ASC Update No. 2016-01, (Subtopic 825-10) Financial Instruments-Overall: Recognition and Measurement of Financial Assets and Financial Liabilities. This ASC update requires

unconsolidated equity investments to be measured at fair value with changes in the fair value recognized in net income, except for those accounted for under the equity method. This update eliminates the cost method for equity investments without readily determinable fair values and replaces with other methods, including the use of Net Asset Value. Additionally, when a public entity is required to measure fair value for disclosure purposes and holds financial instruments measured at amortized cost, the updated guidance requires these instruments to be measured using exit price. It also requires financial assets and financial liabilities to be presented separately in the notes to the financial statements, grouped by measurement category and form of financial asset. The updated guidance is effective for annual periods beginning after December 15, 2017. The Company is evaluating the impact of the adoption of ASC Update No. 2016-01 on its financial position and results of operations.

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In May 2015, the FASB issued ASC Update No. 2015-09, (Topic 944) Financial Services- Insurance: Disclosures about Short-Duration Contracts. This ASC update requires several additional disclosures regarding short-duration insurance contracts, including; disaggregated incurred and paid claims development information, quantitative and qualitative information about claim frequency and duration, and the sum of incurred but not reported liabilities plus expected development on reported claims included in the liability for unpaid claims and claim adjustment expenses along with a description of reserving methodologies. This information is required to be presented by accident year, for the number of years for which claims typically remain outstanding, but need not exceed 10 years. A reconciliation of the claims development disclosures to the aggregate carrying amount of the liability for unpaid claims and claim adjustment expenses, including a separate disclosure for reinsurance recoverables is also required for each period presented in the statement of financial position. In addition, this ASC update requires insurance entities to disclose information about significant changes in methodologies and assumptions used to calculate the liability for unpaid claims and claim adjustment expenses, including reasons for the change and the effects on the financial statements. The updated guidance is effective for annual periods beginning after December 15, 2015, and interim periods within annual periods beginning after December 15, 2016. Early adoption is permitted. The Company does not expect the adoption of ASC Update No. 2015-09 to have a material impact on its financial position or results of operations, as the update is disclosure related.

In May 2014, the FASB issued ASC Update No. 2014-09, (Topic 606) Revenue from Contracts with Customers. This ASC update was issued to clarify the principles for recognizing revenue. Insurance contracts and financial instrument transactions are not within the scope of this updated guidance, and; therefore, only an insignificant amount of the Company's revenue is subject to this updated guidance. In August 2015, the FASB issued ASC Update No. 2015-14, (Topic 606) Revenue from Contracts with Customers, which deferred the effective date of ASC Update No. 2014-09 by one year. Accordingly, the updated guidance is effective for periods beginning after December 15, 2017 and is not expected to have a material effect on the Company's financial position or results of operations.

In August 2014, the FASB issued ASC Update No. 2014-15, (Subtopic 205-40) Presentation of Financial Statement-Going Concern. This ASC update provides guidance on determining when and how to disclose going concern uncertainties in the financial statements, and requires management to perform interim and annual assessments of an entity's ability to continue as a going concern within one year of the date the financial statements are issued. The updated guidance is effective for annual periods ending after December 15, 2016 and interim periods thereafter. Early adoption is permitted. The Company does not expect the adoption of ASC Update No. 2014-15 to have a material impact on its financial position or results of operations.

3. Income Taxes

Income tax expense for the nine months ended September 30, 2016 and 2015 has been computed using estimated annual effective tax rates. These rates are revised, if necessary, at the end of each successive interim period to reflect current estimates of the annual effective tax rates.

For the nine months ended September 30, 2016, the tax provision is comprised of a \$28.9 million U.S. federal income tax expense and a \$27.9 million foreign income tax expense. For the nine months ended September 30, 2015, the tax provision was comprised of a \$62.2 million U.S. federal income tax expense and a \$24.8 million foreign income tax expense.

Although most of the Company's non-U.S. income is subject to U.S. federal income tax, certain of its non-U.S. income is not subject to U.S. federal income tax until repatriated. Foreign taxes on this non-U.S. income are accrued at the local foreign tax rate, as opposed to the higher U.S. statutory rate, since these earnings currently are expected to be indefinitely reinvested overseas. This assumption could change as a result of a sale of the subsidiaries, the receipt of dividends from the subsidiaries, a change in management's intentions, or as a result of various other events. The

Company has not made a provision for U.S. taxes on \$18.7 million and \$65.2 million of non-U.S. income for the nine months ended September 30, 2016 and 2015, respectively. However, in the future, if such earnings were distributed to the Company, taxes of \$51.9 million would be payable on the accumulated undistributed earnings and would be reflected in the tax provision for the year in which these earnings are no longer intended to be indefinitely reinvested overseas, assuming all foreign tax credits are realized.

The Company or its subsidiaries files income tax returns in the U.S. federal jurisdiction and various state jurisdictions, as well as foreign jurisdictions. The Company and its subsidiaries are subject to U.S. federal income tax examinations by tax authorities for years after 2012, U.S. state income tax examinations for years after 2012 and foreign examinations for years after 2012.

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4. Debt

Debt consists of the following:

(in millions)	September 30, 2016	December 31, 2015
Senior debentures maturing April 15, 2026	\$ 375.0	\$ -
Senior debentures maturing June 15, 2021	-	300.0
Senior debentures maturing March 1, 2020	-	80.0
Senior debentures maturing October 15, 2025	74.6	74.6
Subordinated debentures maturing March 30, 2053	175.0	175.0
Subordinated debentures maturing February 3, 2027	59.7	59.7
FHLBB borrowings (secured)	125.0	125.0
Total principal debt	\$ 809.3	\$ 814.3
Unamortized debt issuance costs	(11.4)	(11.2)
Total	\$ 797.9	\$ 803.1

On April 8, 2016, the Company issued \$375.0 million aggregate principal amount of 4.50% senior unsecured debentures due April 15, 2026. The senior debentures are subject to certain restrictive covenants, including limitations on the issuance or disposition of stock of restricted subsidiaries and limitations on liens. These debentures pay interest semi-annually.

Net proceeds from the issuance of the aforementioned debentures were \$370.5 million. On May 21, 2016, the proceeds, together with cash on hand, were used to redeem the outstanding 7.50% notes due March 1, 2020 and 6.375% notes due June 15, 2021. The redemption of these notes resulted in a pre-tax loss of \$86.1 million.

At September 30, 2016, the Company was in compliance with the covenants associated with its debt indentures and credit arrangements.

5. Investments

A. Fixed maturities and equity securities

The amortized cost and fair value of available-for-sale fixed maturities and the cost and fair value of equity securities were as follows:

(in millions)	September 30, 2016			Fair Value	OTTI Unrealized Losses
	Amortized Cost or Cost	Gross Unrealized Gains	Gross Unrealized Losses		
Fixed maturities:					
U.S. Treasury and government agencies	\$ 311.1	\$ 9.4	\$ 0.1	\$ 320.4	\$ -
Foreign government	234.5	8.2	-	242.7	-
Municipal	1,071.8	65.7	1.1	1,136.4	-
Corporate	3,937.4	190.5	19.7	4,108.2	15.8
Residential mortgage-backed	921.8	23.5	1.0	944.3	0.3

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Commercial mortgage-backed	546.5	23.7	0.4	569.8	-
Asset-backed	77.3	1.4	0.3	78.4	-
Total fixed maturities	\$ 7,100.4	\$ 322.4	\$ 22.6	\$ 7,400.2	\$ 16.1
Equity securities	\$ 533.6	\$ 79.8	\$ 0.9	\$ 612.5	\$ -

(in millions)	December 31, 2015			Fair Value	OTTI Unrealized Losses
	Amortized Cost or Cost	Gross Unrealized Gains	Gross Unrealized Losses		
Fixed maturities:					
U.S. Treasury and government agencies	\$ 447.1	\$ 5.5	\$ 3.5	\$ 449.1	\$ -
Foreign government	244.7	2.6	1.5	245.8	-
Municipal	1,074.5	50.0	4.2	1,120.3	-
Corporate	3,699.9	86.8	95.7	3,691.0	27.5
Residential mortgage-backed	887.6	13.4	4.9	896.1	0.3
Commercial mortgage-backed	499.6	5.8	4.3	501.1	-
Asset-backed	80.6	0.2	0.8	80.0	-
Total fixed maturities	\$ 6,934.0	\$ 164.3	\$ 114.9	\$ 6,983.4	\$ 27.8
Equity securities	\$ 528.5	\$ 55.7	\$ 7.6	\$ 576.6	\$ -

Other-than-temporary impairments (“OTTI”) unrealized losses in the tables above represent OTTI recognized in accumulated other comprehensive income. This amount excludes net unrealized gains on impaired securities relating to changes in the value of such securities subsequent to the impairment measurement date of \$21.1 million and \$1.1 million as of September 30, 2016 and December 31, 2015, respectively.

The amortized cost and fair value by maturity periods for fixed maturities are shown below. Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties, or the Company may have the right to put or sell the obligations back to the issuers.

(in millions)	September 30, 2016	
	Amortized Cost	Fair Value
Due in one year or less	\$ 375.0	\$ 378.2
Due after one year through five years	2,575.9	2,692.0
Due after five years through ten years	2,120.6	2,220.4
Due after ten years	483.3	517.1
	5,554.8	5,807.7
Mortgage-backed and asset-backed securities	1,545.6	1,592.5

Total fixed maturities \$ 7,100.4 \$ 7,400.2

B. Securities in an unrealized loss position

The following tables provide information about the Company's fixed maturities and equity securities that were in an unrealized loss position at September 30, 2016 and December 31, 2015 including the length of time the securities have been in an unrealized loss position:

(in millions)	September 30, 2016					
	12 months or less		Greater than 12 months		Total	
	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value
Fixed maturities:						
Investment grade:						
U.S. Treasury and government agencies	\$ 0.1	\$ 37.8	\$ -	\$ -	\$ 0.1	\$ 37.8
Foreign governments	-	11.5	-	1.5	-	13.0
Municipal	0.2	43.7	0.9	31.7	1.1	75.4
Corporate	1.3	209.7	4.3	55.5	5.6	265.2
Residential mortgage-backed	0.2	122.3	0.8	40.1	1.0	162.4
Commercial mortgage-backed	0.4	56.8	-	7.1	0.4	63.9
Asset-backed	0.1	3.7	0.2	6.2	0.3	9.9
Total investment grade	2.3	485.5	6.2	142.1	8.5	627.6
Below investment grade:						
Corporate	0.9	30.1	13.2	105.2	14.1	135.3
Total fixed maturities	3.2	515.6	19.4	247.3	22.6	762.9
Equity securities	0.9	18.7	-	-	0.9	18.7
Total	\$ 4.1	\$ 534.3	\$ 19.4	\$ 247.3	\$ 23.5	\$ 781.6

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(in millions)	December 31, 2015					
	12 months or less		Greater than 12		Total	
	Gross		Gross		Gross	
	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value	Unrealized Losses	Fair Value
Fixed maturities:						
Investment grade:						
U.S. Treasury and government agencies	\$ 1.5	\$ 139.0	\$ 2.0	\$ 77.2	\$ 3.5	\$ 216.2
Foreign governments	0.8	63.6	0.7	8.4	1.5	72.0
Municipal	2.3	143.0	1.9	57.4	4.2	200.4
Corporate	30.7	1,138.3	18.9	122.3	49.6	1,260.6
Residential mortgage-backed	3.0	334.5	1.9	47.0	4.9	381.5
Commercial mortgage-backed	4.2	293.8	0.1	9.7	4.3	303.5
Asset-backed	0.8	56.6	-	1.4	0.8	58.0
Total investment grade	43.3	2,168.8	25.5	323.4	68.8	2,492.2
Below investment grade:						
Corporate	19.6	165.5	26.5	63.2	46.1	228.7
Total fixed maturities	62.9	2,334.3	52.0	386.6	114.9	2,720.9
Equity securities	7.6	166.8	-	-	7.6	166.8
Total	\$ 70.5	\$ 2,501.1	\$ 52.0	\$ 386.6	\$ 122.5	\$ 2,887.7

The Company views gross unrealized losses on fixed maturities and equity securities as being temporary since it is its assessment that these securities will recover in the near term, allowing the Company to realize the anticipated long-term economic value. The Company employs a systematic methodology to evaluate declines in fair value below amortized cost for fixed maturity securities or cost for equity securities. In determining OTTI of fixed maturity and equity securities, the Company evaluates several factors and circumstances, including the issuer's overall financial condition; the issuer's credit and financial strength ratings; the issuer's financial performance, including earnings trends, dividend payments and asset quality; any specific events which may influence the operations of the issuer; the general outlook for market conditions in the industry or geographic region in which the issuer operates; and the length of time and the degree to which the fair value of an issuer's securities remains below the Company's cost. With respect to fixed maturity investments, the Company considers any factors that might raise doubt about the issuer's ability to make contractual payments as they come due and whether the Company expects to recover the entire amortized cost basis of the security. With respect to equity securities, the Company considers its ability and intent to hold the investment for a period of time to allow for a recovery in value.

C. Other investments

In accordance with Lloyd's operating guidelines, the Company deposits funds at Lloyd's to support underwriting operations. These funds are available only to fund claim obligations. These assets consisted of approximately \$507 million of fixed maturities and \$4 million of cash and cash equivalents as of September 30, 2016. The Company also deposits funds with various state and governmental authorities in the U.S. For a discussion of the Company's deposits with state and governmental authorities, see also Note 3 – "Investments" of the Notes to Consolidated Financial Statements in our Annual Report on Form 10-K for the year ended December 31, 2015.

D. Proceeds from sales

The proceeds from sales of available-for-sale securities and gross realized gains and losses on those sales, were as follows:

(in millions)	Three Months Ended September 30,					
	2016			2015		
	Proceeds	Gross	Gross	Proceeds	Gross	Gross
	Sales	Gains	Losses	Sales	Gains	Losses
Fixed maturities	\$ 94.2	\$ 3.6	\$ 0.3	\$ 145.2	\$ 0.7	\$ 0.6
Equity securities	\$ 20.7	\$ -	\$ 1.2	\$ 17.4	\$ 4.1	\$ 0.1

(in millions)	Nine Months Ended September 30,					
	2016			2015		
	Proceeds	Gross	Gross	Proceeds	Gross	Gross
	Sales	Gains	Losses	Sales	Gains	Losses
Fixed maturities	\$ 402.1	\$ 9.5	\$ 4.5	\$ 969.9	\$ 13.6	\$ 5.3
Equity securities	\$ 194.1	\$ 26.4	\$ 2.9	\$ 185.2	\$ 24.2	\$ 0.1

Proceeds from sales of fixed maturities for the nine months ended September 30, 2015 included \$379.6 million from the transfer of fixed maturity investments in connection with the disposal of the U.K. motor business and related gross gains of \$6.4 million and gross losses of \$0.6 million.

E. Other-than-temporary impairments

For the three months ended September 30, 2016, \$0.1 million of OTTI on fixed maturities was transferred from unrealized losses in accumulative other comprehensive income ("AOCI") and recognized in earnings, with no impact on total OTTI. For the nine months ended September 30, 2016, total OTTI was \$19.2 million, consisting primarily of fixed maturities and, to a lesser extent, equity securities. Of this amount, \$26.0 million was recognized in earnings, including \$6.8 million which was transferred from unrealized losses in AOCI.

For the three months ended September 30, 2015, total OTTI of fixed maturities was \$9.5 million. Of this amount, \$4.2 million was recognized in earnings and the remaining \$5.3 million was recorded as unrealized losses in AOCI. For the nine months ended September 30, 2015, total OTTI of fixed maturities and equity securities was \$20.9 million. Of this amount, \$8.8 million was recognized in earnings and the remaining \$12.1 million was recorded as unrealized losses in AOCI.

The methodology and significant inputs used to measure the amount of credit losses on fixed maturities in 2016 and 2015 were as follows:

Corporate bonds – the Company utilized a financial model that derives expected cash flows based on probability-of-default factors by credit rating, loss-given-default factors based on security type and position in the capital structure and asset duration. These factors are based on historical data provided by an independent third-party rating agency.

The following table provides rollforwards of the cumulative amounts related to the Company’s credit loss portion of the OTTI losses on fixed maturity securities for which the non-credit portion of the loss is included in other comprehensive income.

(in millions)	Three Months		Nine Months	
	Ended		Ended	
	September 30,	September 30,	September 30,	September 30,
	2016	2015	2016	2015
Credit losses at beginning of period	\$ 11.7	\$ 6.1	\$ 18.0	\$ 4.2
Credit losses for which an OTTI was not previously recognized	-	2.5	5.2	5.2
Additional credit losses on securities for which an OTTI was previously recognized	0.1	1.0	2.2	1.0
Reductions for securities sold, matured or called	(2.3)	-	(3.9)	(0.8)
Reductions for securities reclassified as intended to sell	-	-	(12.0)	-
Credit losses at end of period	\$ 9.5	\$ 9.6	\$ 9.5	\$ 9.6

6. Fair Value

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability, i.e., exit price, in an orderly transaction between market participants. The Company emphasizes the use of observable market data whenever available in determining fair value. Fair values presented for certain financial instruments are estimates which, in many cases, may differ significantly from the amounts that could be realized upon immediate liquidation. A hierarchy of the three broad levels of fair value are as follows, with the highest priority given to Level 1 as these are the most observable, and the lowest priority given to Level 3:

Level 1 – Unadjusted quoted prices in active markets for identical assets or liabilities.

Level 2 – Quoted prices for similar assets or liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data, including model-derived valuations.

Level 3 – Unobservable inputs that are supported by little or no market activity.

When more than one level of input is used to determine fair value, the financial instrument is classified as Level 2 or 3 according to the lowest level input that has a significant impact on the fair value measurement.

The following methods and assumptions were used to estimate the fair value of each class of financial instruments and have not changed since last year.

Cash and Cash Equivalents

The carrying amount approximates fair value. Cash equivalents primarily consist of money market instruments, which are generally valued using unadjusted quoted prices in active markets that are accessible for identical assets and are classified as Level 1.

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Fixed Maturities

Level 1 securities generally include U.S. Treasury issues and other securities that are highly liquid and for which quoted market prices are available. Level 2 securities are valued using pricing for similar securities and pricing models that incorporate observable inputs including, but not limited to yield curves and issuer spreads. Level 3 securities include issues for which little observable data can be obtained, primarily due to the illiquid nature of the securities, and for which significant inputs used to determine fair value are based on the Company's own assumptions. Non-binding broker quotes are also included in Level 3.

The Company utilizes a third party pricing service for the valuation of the majority of its fixed maturity securities and receives one quote per security. When quoted market prices in an active market are available, they are provided by the pricing service as the fair value and such values are classified as Level 1. Since fixed maturities other than U.S. Treasury securities generally do not trade on a daily basis, the pricing service prepares estimates of fair value for those securities using pricing applications based on a market approach. Inputs into the fair value pricing common to all asset classes include: benchmark U.S. Treasury security yield curves; reported trades of identical or similar fixed maturity securities; broker/dealer quotes of identical or similar fixed maturity securities and structural characteristics such as maturity date, coupon, mandatory principal payment dates, frequency of interest and principal payments, and optional redemption features. Inputs into the fair value applications that are unique by asset class include, but are not limited to:

- U.S. government agencies – determination of direct versus indirect government support and whether any contingencies exist with respect to the timely payment of principal and interest.
- Foreign government – estimates of appropriate market spread versus underlying related sovereign treasury curve(s) dependent on liquidity and direct or contingent support.
- Municipals – overall credit quality, including assessments of the level and variability of: sources of payment such as income, sales or property taxes, levies or user fees; credit support such as insurance; state or local economic and political base; natural resource availability; and susceptibility to natural or man-made catastrophic events such as hurricanes, earthquakes or acts of terrorism.
- Corporate fixed maturities – overall credit quality, including assessments of the level and variability of: economic sensitivity; liquidity; corporate financial policies; management quality; regulatory environment; competitive position; ownership; restrictive covenants; and security or collateral.
- Residential mortgage-backed securities – estimates of prepayment speeds based upon: historical prepayment rate trends; underlying collateral interest rates; geographic concentration; vintage year; borrower credit quality characteristics; interest rate and yield curve forecasts; government or monetary authority support programs; tax policies; delinquency/default trends; and, in the case of non-agency collateralized mortgage obligations, severity of loss upon default and length of time to recover proceeds following default.
- Commercial mortgage-backed securities – overall credit quality, including assessments of the value and supply/demand characteristics of: collateral type such as office, retail, residential, lodging, or other; geographic concentration by region, state, metropolitan statistical area and locale; vintage year; historical collateral performance including defeasance, delinquency, default and special servicer trends; and capital structure support features.
- Asset-backed securities – overall credit quality, including assessments of the underlying collateral type such as credit card receivables, auto loan receivables and equipment lease receivables; geographic diversification; vintage year; historical collateral performance including delinquency, default and casualty trends; economic conditions influencing use rates and resale values; and contract structural support features.

Generally, all prices provided by the pricing service, except actively traded securities with quoted market prices, are reported as Level 2.

The Company holds privately placed fixed maturity securities and certain other fixed maturity securities that do not have an active market and for which the pricing service cannot provide fair values. The Company determines fair values for these securities using either matrix pricing utilizing the market approach or broker quotes. The Company will use observable market data as inputs into the fair value applications, as discussed in the determination of Level 2 fair values, to the extent it is available, but is also required to use a certain amount of unobservable judgment due to the illiquid nature of the securities involved. Unobservable judgment reflected in the Company's matrix model accounts for estimates of additional spread required by market participants for factors such as issue size, structural complexity, high bond coupon or other unique features. These matrix-priced securities are reported as Level 2 or Level 3, depending on the significance of the impact of unobservable judgment on the security's value. Additionally, the Company may obtain non-binding broker quotes which are reported as Level 3.

Equity Securities

Level 1 consists of publicly traded securities, including exchange traded funds, valued at quoted market prices. Level 2 includes securities that are valued using pricing for similar securities and pricing models that incorporate observable inputs. Level 3 consists of common or preferred stock of private companies for which observable inputs are not available.

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The Company utilizes a third party pricing service for the valuation of the majority of its equity securities and receives one quote for each equity security. When quoted market prices in an active market are available, they are provided by the pricing service as the fair value and such values are classified as Level 1. The Company holds certain equity securities that have been issued by privately-held entities that do not have an active market and for which the pricing service cannot provide fair values. Generally, the Company estimates fair value for these securities based on the issuer's book value and market multiples. These securities are reported as Level 2 or Level 3 depending on the significance of the impact of unobservable judgment on the security's value. Additionally, the Company may obtain non-binding broker quotes which are reported as Level 3.

Other Investments

Other investments primarily include mortgage participations, overseas trust funds required in connection with our Lloyd's business and cost basis limited partnerships. Fair values of mortgage participations and other mortgage loans are estimated by discounting the contractual cash flows using the rates at which similar loans would be made to borrowers with comparable credit ratings and are reported as Level 3. Fair values of overseas trust funds are provided by the investment manager based on quoted prices for similar instruments in active markets and are reported as Level 2. The fair values of cost basis limited partnerships are based on the net asset value provided by the general partner and recent financial information and are excluded from the fair value hierarchy.

Debt

The fair value of debt is estimated based on quoted market prices for identical or similar issuances. If a quoted market price is not available, fair values are estimated using discounted cash flows that are based on current interest rates and yield curves for debt issuances with maturities and credit risks consistent with the debt being valued. Debt is reported as Level 2.

The estimated fair value of the financial instruments were as follows:

(in millions)	September 30, 2016		December 31, 2015	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Financial Assets				
Cash and cash equivalents	\$ 315.9	\$ 315.9	\$ 338.8	\$ 338.8
Fixed maturities	7,400.2	7,400.2	6,983.4	6,983.4
Equity securities	612.5	612.5	576.6	576.6
Other investments	448.3	463.5	365.4	367.9
Total financial assets	\$ 8,776.9	\$ 8,792.1	\$ 8,264.2	\$ 8,266.7
Financial Liabilities				
Debt	\$ 797.9	\$ 895.9	\$ 803.1	\$ 927.8

The Company has processes designed to ensure that the values received from its third party pricing service are accurately recorded, that the data inputs and valuation techniques utilized are appropriate and consistently applied, and that the assumptions are reasonable and consistent with the objective of determining fair value. The Company performs a review of the fair value hierarchy classifications and of prices received from its pricing service on a quarterly basis. The Company reviews the pricing services' policies describing its methodology, processes, practices and inputs, including various financial models used to value securities. Also, the Company reviews the portfolio pricing, including a process for which securities with changes in prices that exceed a defined threshold are verified to independent sources, if available. If upon review, the Company is not satisfied with the validity of a given price, a

pricing challenge would be submitted to the pricing service along with supporting documentation for its review. The Company does not adjust quotes or prices obtained from the pricing service unless the pricing service agrees with the Company's challenge. During 2016 and 2015, the Company did not adjust any prices received from its pricing service.

Changes in the observability of valuation inputs may result in a reclassification of certain financial assets or liabilities within the fair value hierarchy. Reclassifications between levels of the fair value hierarchy are reported as of the beginning of the period in which the reclassification occurs. As previously discussed, the Company utilizes a third party pricing service for the valuation of the majority of its fixed maturities and equity securities. The pricing service has indicated that it will only produce an estimate of fair value if there is objectively verifiable information to produce a valuation. If the pricing service discontinues pricing an investment, the Company will use observable market data to the extent it is available, but may also be required to make assumptions for market based inputs that are unavailable due to market conditions.

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The following tables provide, for each hierarchy level, the Company's assets that were measured at fair value on a recurring basis.

(in millions)	September 30, 2016			
	Total	Level 1	Level 2	Level 3
Fixed maturities:				
U.S. Treasury and government agencies	\$ 320.4	\$ 174.2	\$ 146.2	\$ -
Foreign government	242.7	48.3	194.4	-
Municipal	1,136.4	-	1,104.1	32.3
Corporate	4,108.2	-	4,103.9	4.3
Residential mortgage-backed, U.S. agency backed	889.8	-	889.8	-
Residential mortgage-backed, non-agency	54.5	-	54.5	-
Commercial mortgage-backed	569.8	-	553.6	16.2
Asset-backed	78.4	-	78.4	-
Total fixed maturities	7,400.2	222.5	7,124.9	52.8
Equity securities	603.8	602.4	-	1.4
Other investments	99.5	-	95.9	3.6
Total investment assets at fair value	\$ 8,103.5	\$ 824.9	\$ 7,220.8	\$ 57.8

(in millions)	December 31, 2015			
	Total	Level 1	Level 2	Level 3
Fixed maturities:				
U.S. Treasury and government agencies	\$ 449.1	\$ 193.6	\$ 255.5	\$ -
Foreign government	245.8	52.5	193.3	-
Municipal	1,120.3	-	1,085.9	34.4
Corporate	3,691.0	-	3,687.3	3.7
Residential mortgage-backed, U.S. agency backed	824.5	-	824.5	-
Residential mortgage-backed, non-agency	71.6	-	71.6	-
Commercial mortgage-backed	501.1	-	484.1	17.0
Asset-backed	80.0	-	79.5	0.5
Total fixed maturities	6,983.4	246.1	6,681.7	55.6
Equity securities	567.7	566.4	-	1.3
Other investments	104.5	-	100.9	3.6
Total investment assets at fair value	\$ 7,655.6	\$ 812.5	\$ 6,782.6	\$ 60.5

The following tables provide, for each hierarchy level, the Company's estimated fair values of financial instruments that were not carried at fair value:

(in millions)	September 30, 2016			
	Total	Level 1	Level 2	Level 3

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Assets:				
Cash and cash equivalents	\$ 315.9	\$ 315.9	\$ -	\$ -
Equity securities	8.7	-	8.7	-
Other investments	290.7	-	-	290.7
Liabilities:				
Debt	\$ 895.9	\$ -	\$ 895.9	\$ -

	December 31, 2015			
(in millions)	Total	Level 1	Level 2	Level 3
Assets:				
Cash and cash equivalents	\$ 338.8	\$ 338.8	\$ -	\$ -
Equity securities	8.9	-	8.9	-
Other investments	203.5	-	-	203.5
Liabilities:				
Debt	\$ 927.8	\$ -	\$ 927.8	\$ -

Investments measured at fair value using net asset value based on an ownership interest in partners' capital have not been included in the table above. The fair values of these investments were \$73.3 million and \$59.9 million as of September 30, 2016 and December 31, 2015, respectively, which are less than 1% of total investment assets.

The tables below provide a reconciliation for all assets measured at fair value on a recurring basis using significant unobservable inputs (Level 3).

(in millions)	Fixed Maturities				Total	Equity and Other	Total Assets
	Municipal	Corporate	Commercial mortgage-backed	Asset-backed			
Three Months Ended							
September 30, 2016							
Balance July 1, 2016	\$ 34.4	\$ 4.4	\$ 16.7	\$ 0.4	\$ 55.9	\$ 4.9	\$ 60.8
Transfers out of Level 3	(1.2)	-	-	-	(1.2)	-	(1.2)
Total (losses) gains:							
Included in other comprehensive income - net (depreciation) appreciation							
on available-for-sale securities	(0.1)	(0.1)	(0.1)	-	(0.3)	0.1	(0.2)
Sales	(0.8)	-	(0.4)	(0.4)	(1.6)	-	(1.6)
Balance September 30, 2016	\$ 32.3	\$ 4.3	\$ 16.2	\$ -	\$ 52.8	\$ 5.0	\$ 57.8
Three Months Ended							
September 30, 2015							
Balance July 1, 2015	\$ 27.0	\$ 9.4	\$ 18.0	\$ 1.3	\$ 55.7	\$ 5.1	\$ 60.8
Transfers out of Level 3	-	(4.6)	-	-	(4.6)	-	(4.6)
Total gains (losses):	-	-	0.1	-	0.1	-	0.1

Included in total net realized investment gains							
Included in other comprehensive income - net appreciation (depreciation) on available-for-sale securities	0.4	-	(0.1)	(0.1)	0.2	-	0.2
Purchases and sales:							
Purchases	3.1	-	-	-	3.1	-	3.1
Sales	(0.5)	(0.1)	(0.3)	-	(0.9)	-	(0.9)
Balance September 30, 2015	\$ 30.0	\$ 4.7	\$ 17.7	\$ 1.2	\$ 53.6	\$ 5.1	\$ 58.7

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(in millions)	Fixed Maturities				Total	Equity and Total Assets	
	Municipal	Corporate	Commercial mortgage-backed	Asset-backed		Other	Assets
Nine Months Ended September 30, 2016							
Balance January 1, 2016	\$ 34.4	\$ 3.7	\$ 17.0	\$ 0.5	\$ 55.6	\$ 4.9	\$ 60.5
Transfers out of Level 3	(1.2)	-	-	-	(1.2)	-	(1.2)
Total gains (losses):							
Included in total net realized investment gains	0.1	(0.2)	-	-	(0.1)	-	(0.1)
Included in other comprehensive income-net appreciation on available-for-sale securities	1.5	0.6	0.6	-	2.7	0.1	2.8
Purchases and sales:							
Purchases	-	0.3	-	-	0.3	-	0.3
Sales	(2.5)	(0.1)	(1.4)	(0.5)	(4.5)	-	(4.5)
Balance September 30, 2016	\$ 32.3	\$ 4.3	\$ 16.2	\$ -	\$ 52.8	\$ 5.0	\$ 57.8
Nine Months Ended September 30, 2015							
Balance January 1, 2015	\$ 25.7	\$ 9.6	\$ 21.4	\$ -	\$ 56.7	\$ 5.0	\$ 61.7
Transfers into Level 3	-	-	-	1.3	1.3	-	1.3
Transfers out of Level 3	-	(4.6)	-	-	(4.6)	-	(4.6)
Total gains (losses):							
Included in total net realized investment gains	-	0.1	0.1	-	0.2	-	0.2
Included in other comprehensive income-net (depreciation) appreciation on available-for-sale securities	(0.4)	(0.2)	(0.7)	(0.1)	(1.4)	0.1	(1.3)
Purchases and sales:							
Purchases	6.2	-	-	-	6.2	-	6.2
Sales	(1.5)	(0.2)	(3.1)	-	(4.8)	-	(4.8)
Balance September 30, 2015	\$ 30.0	\$ 4.7	\$ 17.7	\$ 1.2	\$ 53.6	\$ 5.1	\$ 58.7

During the three and nine months ended September 30, 2016 and 2015, the Company transferred assets between Level 2 and Level 3 primarily as a result of assessing the significance of unobservable inputs on the fair value measurement. There were no transfers between Level 1 and Level 2 during the three months or nine months ended September 30, 2016 or 2015. There were no Level 3 liabilities held by the Company for the nine months ended September 30, 2016 and 2015.

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The following table provides quantitative information about the significant unobservable inputs used by the Company in the fair value measurements of Level 3 assets. Where discounted cash flows were used in the valuation of fixed maturities, the internally-developed discount rate was adjusted by the significant unobservable inputs shown in the table. Valuations for securities based on broker quotes for which there was a lack of transparency as to inputs used to develop the valuations of \$0.5 million have been excluded.

(in millions)	Valuation Technique	Significant Unobservable Inputs	September 30, 2016		December 31, 2015	
			Fair Value	Range (Wtd Average)	Fair Value	Range (Wtd Average)
Fixed maturities:						
Municipal	Discounted cash flow	Discount for: Small issue size Credit stress Above-market coupon	\$ 32.3	0.7 -6.8% (3.3%) 0.9 - 1.5% (1.2%) 0.3 - 1.0% (0.4%)	\$ 34.4	0.6 - 6.8% (3.2%) 0.9 - 1.5% (1.2%) 0.3 - 1.0% (0.4%)
Corporate	Discounted cash flow	Discount for: Small issue size Credit stress Above-market coupon	4.1	2.0 - 2.5% (2.1%) 1.0% (1.0%) 0.3 - 0.8% (0.6%)	3.7	1.0% (1.0%) 10.0% (10.0%) 0.3 - 0.8% (0.6%)
Commercial mortgage-backed	Discounted cash flow	Discount for: Small issue size Above-market coupon Lease structure	16.2	1.5 - 3.1% (2.6%) 0.5% (0.5%) 0.3% (0.3%)	17.0	0.5 - 1.0% (0.5%) 0.5% (0.5%) 0.3% (0.3%)
Asset-backed	Discounted cash flow	Discount for: Small issue size	-	N/A	0.5	0.7% (0.7%)
Equity securities	Market comparables	Net tangible asset market multiples	1.1	1.0X (1.0X)	1.1	1.0X (1.0X)
Other	Discounted cash flow	Discount rate	3.6	18.0% (18.0%)	3.6	18.0% (18.0%)

Significant increases (decreases) in any of the above inputs in isolation would result in a significantly lower (higher) fair value measurement. There were no interrelationships between these inputs which might magnify or mitigate the effect of changes in unobservable inputs on the fair value measurement.

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7. Pension and Other Postretirement Benefit Plans

The components of net periodic pension cost for defined benefit pension and other postretirement benefit plans included in the Company's results of operations are as follows:

	Three Months Ended September 30,			
	2016	2015	2016	2015
(in millions)	Pension Plans		Postretirement Plans	
Service cost - benefits earned during the period	\$ 0.2	\$ 0.2	\$ -	\$ -
Interest cost	7.4	7.4	0.2	0.1
Expected return on plan assets	(7.4)	(8.0)	-	-
Recognized net actuarial loss	2.8	3.1	-	-
Amortization of prior service cost	-	-	(0.3)	(0.3)
Net periodic pension cost (benefit)	\$ 3.0	\$ 2.7	\$ (0.1)	\$ (0.2)

	Nine Months Ended September 30,			
	2016	2015	2016	2015
(in millions)	Pension Plans		Postretirement Plans	
Service cost - benefits earned during the period	\$ 0.6	\$ 0.9	\$ -	\$ -
Interest cost	22.2	22.0	0.4	0.4
Expected return on plan assets	(22.4)	(23.7)	-	-
Recognized net actuarial loss	8.4	10.9	0.1	0.1
Amortization of prior service cost	-	-	(1.0)	(1.0)
Curtailment gain	-	(1.8)	-	-
Net periodic pension cost (benefit)	\$ 8.8	\$ 8.3	\$ (0.5)	\$ (0.5)

In the second quarter of 2015, the Company recognized a \$1.8 million curtailment gain due to the disposal of the U.K. motor business. Included in the table above in recognized net actuarial loss was an equal and offsetting expense.

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8. Other Comprehensive Income

The following table provides changes in other comprehensive income.

(in millions)	Three Months Ended September 30, 2016			2015		
	Pre-Tax	Tax Benefit (Expense)	Net of Tax	Pre-Tax	Tax Benefit (Expense)	Net of Tax
	Unrealized gains (losses) on available-for-sale securities:					
Unrealized gains (losses) arising during period	\$ 8.1	\$ (2.9)	\$ 5.2	\$ (47.0)	\$ 16.5	\$ (30.5)
Amount of realized gains from sales and other	(3.4)	(3.9)	(7.3)	(5.9)	(1.4)	(7.3)
Portion of other-than-temporary impairment losses recognized in earnings	0.1	-	0.1	4.2	(1.5)	2.7
Net unrealized gains (losses)	4.8	(6.8)	(2.0)	(48.7)	13.6	(35.1)
Pension and postretirement benefits:						
Amortization of net actuarial loss and prior service cost recognized as net periodic benefit cost	2.5	(1.0)	1.5	2.7	(1.0)	1.7
Cumulative foreign currency translation adjustment:						
Foreign currency translation recognized during the period	(2.9)	1.0	(1.9)	(4.0)	1.4	(2.6)
Other comprehensive income (loss)	\$ 4.4	\$ (6.8)	\$ (2.4)	\$ (50.0)	\$ 14.0	\$ (36.0)
	Nine Months Ended September 30, 2016			2015		
	Pre-Tax	Tax Benefit (Expense)	Net of Tax	Pre-Tax	Tax Benefit (Expense)	Net of Tax
(in millions)						
Unrealized gains (losses) on available-for-sale securities:						
Unrealized gains (losses) arising during period	\$ 290.1	\$ (101.5)	\$ 188.6	\$ (120.5)	\$ 42.2	\$ (78.3)
Amount of realized gains from sales and other	(30.7)	(3.3)	(34.0)	(32.3)	1.9	(30.4)
Portion of other-than-temporary impairment losses recognized in earnings	26.0	(9.1)	16.9	8.8	(3.1)	5.7
Net unrealized gains (losses)	285.4	(113.9)	171.5	(144.0)	41.0	(103.0)
Pension and postretirement benefits:						
Net actuarial losses and prior service cost arising in the period	-	-	-	(1.2)	(0.2)	(1.4)
Amortization of net actuarial loss and prior service cost recognized as net periodic benefit cost	7.5	(2.7)	4.8	10.0	(3.2)	6.8
Net pension and postretirement benefits	7.5	(2.7)	4.8	8.8	(3.4)	5.4

Cumulative foreign currency translation
adjustment:

Foreign currency translation recognized during
the period

	(4.9)	1.7	(3.2)	(7.4)	2.6	(4.8)
Other comprehensive income (loss)	\$ 288.0	\$ (114.9)	\$ 173.1	\$ (142.6)	\$ 40.2	\$ (102.4)

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Reclassifications out of accumulated other comprehensive income were as follows:

	Three Months Ended September 30,		Nine Months Ended September 30,		
(in millions)	2016	2015	2016	2015	
	Amount Reclassified from Accumulated Other Comprehensive Income				Affected Line Item in the Statement Where Net Income is Presented
Details about Accumulated Other Comprehensive Income Components					
Unrealized gains on available-for-sale securities	\$ 3.4	\$ 5.9	\$ 30.7	\$ 32.3	Net realized gains from sales and other Net other-than-temporary impairment losses on investments recognized
	(0.1)	(4.2)	(26.0)	(8.8)	in earnings
	3.3	1.7	4.7	23.5	Total before tax
	3.9	2.9	12.4	1.2	Tax benefit
	7.2	4.6	17.1	24.7	Net of tax
Amortization of defined benefit pension and postretirement plans	(2.5)	(2.7)	(7.5)	(10.0)	Loss adjustment expenses and other operating expenses
	1.0	1.0	2.7	3.2	Tax benefit
	(1.5)	(1.7)	(4.8)	(6.8)	Net of tax
Total reclassifications for the period	\$ 5.7	\$ 2.9	\$ 12.3	\$ 17.9	Benefit to income, net of tax

The amount reclassified from accumulated other comprehensive income for the pension and postretirement benefits was allocated approximately 40% to loss adjustment expenses and 60% to other operating expenses for the nine months ended September 30, 2016 and 2015.

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9. Segment Information

The Company's primary business operations include insurance products and services provided through four operating segments. The domestic operating segments are Commercial Lines, Personal Lines and Other, and the Company's international operating segment is Chaucer. Commercial Lines includes commercial multiple peril, commercial automobile, workers' compensation, and other commercial coverages, such as inland marine, specialty program business, management and professional liability and surety. Personal Lines includes personal automobile, homeowners and other personal coverages. Chaucer includes marine and aviation, property, energy, casualty and other coverages (which includes international liability, specialist coverages, and syndicate participations), and U.K. motor business prior to June 30, 2015. Effective June 30, 2015, the Company transferred its U.K. motor business to an unaffiliated party. Included in Other are Opus Investment Management, Inc., which markets investment management services to institutions, pension funds and other organizations; earnings on holding company assets; and, a discontinued voluntary pools business. The separate financial information is presented consistent with the way results are regularly evaluated by the chief operating decision maker in deciding how to allocate resources and in assessing performance.

The Company reports interest expense related to debt separately from the earnings of its operating segments. This consists of interest on the Company's senior debentures, subordinated debentures, collateralized borrowings with the Federal Home Loan Bank of Boston, and letter of credit facility. Management evaluates the results of the aforementioned segments based on operating income before taxes, which also excludes interest expense on debt. Operating income before taxes excludes certain items which are included in net income, such as net realized investment gains and losses. Such gains and losses are excluded since they are determined by interest rates, financial markets and the timing of sales. Also, operating income before taxes excludes net gains and losses on disposals of business assets, gains and losses related to the repayment of debt, discontinued operations, costs to acquire businesses, restructuring costs, the cumulative effect of accounting changes and certain other items. Although the items excluded from operating income before taxes may be important components in understanding and assessing the Company's overall financial performance, management believes that the presentation of operating income before taxes enhances an investor's understanding of the Company's results of operations by highlighting net income attributable to the core operations of the business. However, operating income before taxes should not be construed as a substitute for income before income taxes and operating income should not be construed as a substitute for net income.

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Summarized below is financial information with respect to the Company's business segments.

(in millions)	Three Months		Nine Months Ended	
	Ended September 30, 2016	2015	September 30, 2016	2015
Operating revenues:				
Commercial Lines	\$ 628.4	\$ 601.2	\$ 1,857.2	\$ 1,786.7
Personal Lines	391.5	379.7	1,154.8	1,131.4
Chaucer	215.0	242.7	667.9	875.5
Other	2.1	1.9	5.9	5.7
Total	1,237.0	1,225.5	3,685.8	3,799.3
Net realized investment gains	4.2	8.0	5.0	30.0
Total revenues	\$ 1,241.2	\$ 1,233.5	\$ 3,690.8	\$ 3,829.3
Operating income (loss) before interest expense and income taxes:				
Commercial Lines:				
Underwriting income	\$ 3.6	\$ 8.3	\$ 12.4	\$ 10.9
Net investment income	39.0	38.7	117.5	116.7
Other (expenses) income	(0.1)	0.1	(0.7)	(1.1)
Commercial Lines operating income	42.5	47.1	129.2	126.5
Personal Lines:				
Underwriting income	23.3	17.9	81.2	34.3
Net investment income	17.1	18.0	51.6	54.2
Other income	1.3	1.3	3.4	3.1
Personal Lines operating income	41.7	37.2	136.2	91.6
Chaucer:				
Underwriting income	37.8	29.6	53.8	92.7
Net investment income	10.3	10.5	32.3	34.8
Other income	0.3	1.1	1.5	4.9
Chaucer operating income	48.4	41.2	87.6	132.4
Other:				
Underwriting loss	(0.8)	(0.9)	(2.1)	(2.3)
Net investment income	1.4	1.1	3.8	3.4
Other net expenses	(3.4)	(3.1)	(9.8)	(9.1)
Other operating loss	(2.8)	(2.9)	(8.1)	(8.0)
Operating income before interest expense and income taxes	129.8	122.6	344.9	342.5
Interest on debt	(12.5)	(14.8)	(42.8)	(45.9)
Operating income before income taxes	117.3	107.8	302.1	296.6
Non-operating income items:				
Net realized investment gains	4.2	8.0	5.0	30.0
Net gain on disposal of U.K. motor business	0.1	-	1.3	37.7
Net loss from repayment of debt	-	(5.6)	(86.1)	(24.1)
Other non-operating items	2.5	0.2	2.8	(0.2)
Income before income taxes	\$ 124.1	\$ 110.4	\$ 225.1	\$ 340.0

The Company recognized approximately \$7 million and \$3 million in net foreign currency transaction losses in the Statements of Income during the three months ended September 30, 2016 and 2015, respectively. The Company recognized approximately \$28 million in net foreign currency transaction losses and approximately \$12 million in net foreign currency transaction gains in the Statements of Income during the nine months ended September 30, 2016 and 2015, respectively.

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The following table provides identifiable assets for the Company's business segments and discontinued operations:

	September 30, 2016	December 31, 2015
(in millions)	Identifiable Assets	
U.S. Companies	\$ 10,124.7	\$ 9,616.0
Chaucer	4,155.0	4,082.2
Discontinued operations	84.0	83.0
Total	\$ 14,363.7	\$ 13,781.2

The Company reviews the assets of its U.S. Companies collectively and does not allocate them between the Commercial Lines, Personal Lines and Other segments.

10. Stock-based Compensation

As of September 30, 2016, there were 5,047,892 shares, 2,420,768 shares and 702,191 shares available for grant under The Hanover Insurance Group 2014 Long-Term Incentive Plan, The Hanover Insurance Group 2014 Employee Stock Purchase Plan and the Chaucer Share Incentive Plan, respectively.

Compensation cost for the Company's stock-based awards and the related tax benefits were as follows:

(in millions)	Three Months Ended		Nine Months Ended	
	September 30, 2016	September 30, 2015	September 30, 2016	September 30, 2015
Stock-based compensation expense	\$ 3.0	\$ 1.9	\$ 8.5	\$ 9.4
Tax benefit	(1.1)	(0.7)	(3.0)	(3.3)
Stock-based compensation expense, net of taxes	\$ 1.9	\$ 1.2	\$ 5.5	\$ 6.1

Stock Options

Information on the Company's stock option plans is summarized below.

(in whole shares and dollars)	Nine Months Ended September 30, 2016		2015	
	Shares	Weighted Average Exercise Price	Shares	Weighted Average Exercise Price
Outstanding, beginning of period	1,619,948	\$ 56.57	2,236,620	\$ 46.61
Granted	524,940	82.74	663,900	70.34
Exercised	(564,389)	48.80	(377,188)	45.66
Forfeited or cancelled	(207,203)	68.23	(117,640)	53.39
	1,373,296	68.01	2,405,692	52.98

Outstanding, end of period

(1)

(1) Included in the table above in outstanding shares for the nine months ended September 30, 2015 were 128,334 options that were previously granted to the Company's former CEO. These options subsequently forfeited in 2016 and are included above in the amounts forfeited or cancelled for the nine months ended September 30, 2016.

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Restricted Stock Units

The following tables summarize activity information about employee restricted stock units:

(in whole shares and dollars)	Nine Months Ended September 30, 2016		2015	
	Shares	Weighted Average Grant Date Fair Value	Shares	Weighted Average Grant Date Fair Value
Time-based restricted stock units:				
Outstanding, beginning of period	301,897	\$ 54.54	384,923	\$ 45.63
Granted	143,107	83.43	92,409	70.61
Vested	(136,398)	42.49	(119,117)	40.94
Forfeited	(27,411)	68.07	(31,573)	51.10
Outstanding, end of period	281,195	73.77	326,642	53.88
Performance-based and market-based restricted stock units:				
Outstanding, beginning of period	196,142	\$ 47.89	218,338	\$ 44.24
Granted	118,736	73.14	82,025	48.55
Vested	(144,141)	41.11	(77,854)	38.82
Forfeited	(63,740)	64.13	(14,451)	44.68
Outstanding, end of period (1)	106,997	75.38	208,058	47.93

(1) Included in the table above in outstanding shares for the nine months ended September 30, 2015 were 56,500 market-based restricted stock units that were previously granted to the Company's former CEO. These units subsequently forfeited in 2016 and are included above in the amounts forfeited for the nine months ended September 30, 2016.

In the first nine months of 2016 and 2015, the Company granted market-based awards totaling 79,153 and 80,738, respectively, to certain members of senior management, which are included in the table above as performance and market-based restricted stock activity. The vesting of these stock units is based on the relative total shareholder return ("TSR") of the Company. This metric is generally based on relative TSR for a three-year period as compared to a pre-selected group of property and casualty companies. The fair value of market-based awards was estimated at the date of grant using a valuation model. These units have the potential to range from 0% to 150% of the shares disclosed. Included in the amount granted above in 2016 are 30,453 shares related to market-based awards that achieved a payout in excess of 100%. These awards vested in the first nine months of 2016.

Performance-based restricted stock units are based upon the achievement of the performance metric at 100%. These units have the potential to range from 0% to 200% of the shares disclosed, which varies based on grant year and individual participation level. Increases above the 100% target level are reflected as granted in the period in which

performance-based stock unit goals are achieved. Decreases below the 100% target level are reflected as forfeited. Included in the amounts granted above in 2016 for the performance-based restricted stock units are 1,949 shares related to awards that a performance metric in excess of 100% was achieved. These awards vested in the first nine months of 2016.

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11. Earnings Per Share and Shareholders' Equity Transactions

The following table provides weighted average share information used in the calculation of the Company's basic and diluted earnings per share:

	Three Months Ended September 30,		Nine Months Ended September 30,	
(in millions, except per share data)	2016	2015	2016	2015
Basic shares used in the calculation of earnings per share	42.7	44.0	42.8	44.1
Dilutive effect of securities:				
Employee stock options	0.2	0.5	0.3	0.5
Non-vested stock grants	0.1	0.4	0.2	0.4
Diluted shares used in the calculation of earnings per share	43.0	44.9	43.3	45.0
Per share effect of dilutive securities on income from continuing operations	\$ (0.01)	\$ (0.03)	\$ (0.04)	\$ (0.11)
Per share effect of dilutive securities on net income	\$ (0.01)	\$ (0.04)	\$ (0.05)	\$ (0.11)

Diluted earnings per share for the three months ended September 30, 2016 exclude 0.6 million of common shares issuable under the Company's stock compensation plans because their effect would be antidilutive. All of the common shares issuable under the Company's stock compensation plans were included in the diluted earnings per share for the three months ended September 30, 2015. Diluted earnings per share for the nine months ended September 30, 2016 and 2015 exclude 0.5 million and 0.6 million, respectively, of common shares issuable under the Company's stock compensation plans because their effect would be antidilutive.

The Company's Board of Directors has authorized aggregate repurchases of the Company's common stock of up to \$900 million. Under the repurchase authorizations, the Company may repurchase, from time to time, common shares in amounts, at prices and at such times as the Company deems appropriate, subject to market conditions and other considerations. Repurchases may be executed using open market purchases, privately negotiated transactions, accelerated repurchase programs or other transactions. The Company is not required to purchase any specific number of shares or to make purchases by any certain date under this program. During the first nine months of 2016, the Company purchased 1.3 million shares of the Company's common stock at a cost of \$105.2 million.

12. Commitments and Contingencies

Legal Proceedings

Durand Litigation

On March 12, 2007, a putative class action suit captioned Jennifer A. Durand v. The Hanover Insurance Group, Inc., and The Allmerica Financial Cash Balance Pension Plan, was filed in the United States District Court for the Western District of Kentucky. The named plaintiff, a former employee of our former life insurance and annuity business who received a lump sum distribution from the Company's Cash Balance Plan (the "Plan") at or about the time of her separation from the company, claims that she and others similarly situated did not receive the appropriate lump sum distribution because in computing the lump sum, the Company and the Plan understated the accrued benefit in the

calculation. The plaintiff claims that the Plan underpaid her distributions and those of similarly situated participants by failing to pay an additional so-called “whipsaw” amount reflecting the present value of an estimate of future interest credits from the date of the lump sum distribution to each participant’s retirement age of 65 (“whipsaw claim”).

The plaintiff filed an Amended Complaint adding two new named plaintiffs and additional claims on December 11, 2009. Two of the three new claims set forth in the Amended Complaint were dismissed by the District Court, which action was upheld in November 2015 by the U.S. Court of Appeals, Sixth Circuit. The District Court, however, did allow to stand the portion of the Amended Complaint which set forth claims against the Company for breach of fiduciary duty and failure to meet notice requirements arising under the Employee Retirement Income Security Act of 1974 (“ERISA”) from the various interest crediting and lump sum distribution matters of which plaintiffs complain, but only as to plaintiffs’ “whipsaw” claim that remained in the case. On December 17, 2013, the Court entered an order certifying a class to bring “whipsaw” and related breach of fiduciary duty claims consisting of all persons who received a lump sum distribution between March 1, 1997 and December 31, 2003. The Company filed a summary judgment motion, prior to the decision on the appeal, that was based on the statute of limitations and seeks to dismiss the subclass of plaintiffs who received lump sum distributions prior to March 13, 2002. This summary judgment motion has been stayed pending additional discovery.

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At this time, the Company is unable to provide a reasonable estimate of the potential range of ultimate liability if the outcome of the suit is unfavorable. The statute of limitations applicable to the sub-class consisting of all persons who received lump sum distributions between March 1, 1997 and March 12, 2002 has not yet been finally determined, and the extent of potential liability, if any, will depend on this determination. In addition, assuming for these purposes that the plaintiffs prevail with respect to claims that benefits accrued or payable under the Plan were understated, then there are numerous possible theories and other variables upon which any revised calculation of benefits as requested under plaintiffs' claims could be based. Any adverse judgment in this case against the Plan would be expected to create a liability for the Plan, with resulting effects on the Plan's assets available to pay benefits. The Company's future required funding of the Plan could also be impacted by such a liability.

Other Matters

The Company has been named a defendant in various other legal proceedings arising in the normal course of business. In addition, the Company is involved, from time to time, in examinations, investigations and proceedings by governmental and self-regulatory agencies. The potential outcome of any such action or regulatory proceedings in which the Company has been named a defendant or the subject of an inquiry or investigation, and its ultimate liability, if any, from such action or regulatory proceedings, is difficult to predict at this time. The ultimate resolutions of such proceedings are not expected to have a material effect on its financial position, although they could have a material effect on the results of operations for a particular quarter or annual period.

Residual Markets

The Company is required to participate in residual markets in various states, which generally pertain to high risk insureds, disrupted markets or lines of business or geographic areas where rates are regarded as excessive. The results of the residual markets are not subject to the predictability associated with the Company's own managed business, and are significant to both the personal and commercial automobile lines of business and the workers' compensation line of business.

13. Subsequent Events

There were no subsequent events requiring adjustment to the financial statements and no additional disclosures required in the notes to the interim consolidated financial statements.

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PART I

ITEM 2

MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

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Introduction

The following Management's Discussion and Analysis of Financial Condition and Results of Operations is intended to assist readers in understanding the interim consolidated results of operations and financial condition of The Hanover Insurance Group, Inc. and its subsidiaries ("THG"). Consolidated results of operations and financial condition are prepared in accordance with generally accepted accounting principles in the United States of America ("U.S. GAAP"). This discussion should be read in conjunction with the interim consolidated financial statements and related footnotes included elsewhere in this Quarterly Report on Form 10-Q and Management's Discussion and Analysis of Financial Condition and Results of Operations contained in our 2015 Annual Report on Form 10-K filed with the Securities and Exchange Commission on February 25, 2016.

Results of operations include the accounts of The Hanover Insurance Company ("Hanover Insurance") and Citizens Insurance Company of America ("Citizens"), our principal U.S. domiciled property and casualty companies; Chaucer Holdings Limited ("Chaucer"), our United Kingdom ("U.K.") domiciled specialist insurance underwriting group which operates through the Society and Corporation of Lloyd's ("Lloyd's"); and certain other insurance and non-insurance subsidiaries. Results of operations include our discontinued operations, consisting primarily of our former life insurance businesses and our accident and health business.

Executive Overview

Business operations consist of four operating segments: Commercial Lines, Personal Lines, Chaucer and Other.

Net income for the nine month period ended September 30, 2016 was \$168.6 million. Net income was adversely affected by prepayment charges of \$56.0 million, net of tax, which we paid in the second quarter in connection with the redemption of \$380.0 million in higher coupon debt following our successful issuance of \$375.0 million of 4.50% senior notes.

Operating income before interest expense and income taxes was \$344.9 million for the nine months ended September 30, 2016, compared to \$342.5 million in the same period in 2015, an increase of \$2.4 million. This increase is primarily due to lower catastrophe losses and current accident year losses, partially offset by lower net favorable development on prior years' loss and loss adjustment expense ("LAE") reserves ("prior years' loss reserves"). Pre-tax catastrophe losses were \$109.1 million for the nine months ended September 30, 2016, compared to \$154.6 million during the same period of 2015. Net favorable development on prior years' loss reserves was \$3.1 million for the nine months ended September 30, 2016, compared to \$76.2 million during the same period of 2015. As explained later in this document, a portion of this change is also attributable to the effect of foreign exchange fluctuations.

We are continuing efforts to improve our underwriting results in both our Commercial and Personal Lines segments, through rate increases and improvements to our mix of business. At Chaucer, we continue to experience significant competitive pressure on rates. In response to these challenging market conditions, we continue to actively manage Chaucer's underwriting portfolio, using our expertise, distinctive underwriting capabilities and market knowledge to target specific attractive underwriting opportunities.

Commercial Lines

We believe our unique approach to the small commercial market, distinctiveness in the middle market, and continued development of specialty lines provides us with a diversified portfolio of products and delivers significant value to agents and policyholders. The small commercial and middle market businesses are expected to contribute to premium growth in Commercial Lines over the next several years as we continue to pursue our core strategy of developing strong partnerships with agents, distinctive products, franchise value through limited distribution, and industry

segmentation. Growth in our specialty lines continues to be an important part of our strategy.

We believe these efforts have driven, and will continue to drive, improvement in our overall mix of business and our underwriting profitability. Commercial Lines net premiums written grew by 3.6% in the first nine months of 2016, driven by both our core commercial and specialty businesses. This growth is primarily due to rate and exposure increases, strong retention and targeted new business expansion.

Underwriting results improved slightly in the first nine months of 2016, as compared to the same period in 2015, due to improved current accident year loss performance and lower catastrophe losses, largely offset by higher unfavorable prior year reserve development. The competitive nature of the Commercial Lines market requires us to be highly disciplined in our underwriting process to ensure that we write business at acceptable margins, and we continue to seek rate increases across our lines of business.

Personal Lines

Personal Lines focuses on partnering with high quality, value-oriented agencies that deliver consultative selling and stress the importance of account rounding (the conversion of single policy customers to accounts with multiple policies and additional coverages). Approximately 82% of our policies in force are account business. We are focused on making investments that help maintain profitability, build a distinctive position in the market, diversify us geographically from our largest historical core states of Michigan, Massachusetts and New York, and provide us with profitable growth opportunities.

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Net premiums written grew by 4.8% in the first nine months of 2016, primarily due to increased rates in both the homeowners and personal automobile lines, as well as improved retention and new business trends. Underwriting results also improved in the first nine months of 2016, as compared to the same period in 2015, primarily due to lower catastrophe losses and improved current accident year loss performance, partially offset by lower favorable prior year development. We continue to seek rate increases in excess of underlying loss cost trends, subject to regulatory and competitive considerations.

Chaucer

Chaucer deploys specialist underwriters in over 30 major insurance and reinsurance classes, including marine and aviation, property, energy, casualty and other coverages. We obtain business through Lloyd's, the leading international insurance and reinsurance market, which provides us with access to specialist business in over 200 countries and territories worldwide through its international licenses, brand reputation and strong security rating. Our underwriting strength, diverse portfolio and Lloyd's membership underpin our ability to actively manage the scale, composition and profitable development of this business.

Underwriting results declined in the first nine months of 2016, as compared to the same period in 2015, primarily due to higher current accident year losses and a decrease in prior accident year favorable reserve development, partially offset by lower catastrophe losses. Excluding the U.K. motor business, which was transferred effective June 30, 2015, Chaucer's gross premiums written declined by 2.8% in the first nine months of 2016, primarily due to lower premium volumes in our energy line, where underwriting conditions reflect the effects of continued low oil prices. On a net basis, written premiums for the first nine months of 2016 declined 9.6% in comparison to the first nine months of 2015, primarily due to a planned increase in ceded reinsurance premiums, as we continue to manage our overall underwriting risk given the challenging market conditions.

Description of Operating Segments

Primary business operations include insurance products and services currently provided through four operating segments. Our domestic operating segments are Commercial Lines, Personal Lines, and Other. Our international operating segment is Chaucer. Commercial Lines includes commercial multiple peril, commercial automobile, workers' compensation and other commercial coverages, such as specialty program business, inland marine, management and professional liability and surety. Personal Lines includes personal automobile, homeowners and other personal coverages. Chaucer includes marine and aviation, property, energy, casualty and other coverages (which includes international liability, specialist coverages, and syndicate participations), and U.K. motor. Effective June 30, 2015, we transferred our U.K. motor business to an unaffiliated U.K.-based insurance provider. Accordingly, results of the Chaucer segment no longer include this business subsequent to June 30, 2015. Included in the "Other" segment are Opus Investment Management, Inc., which markets investment management services to institutions, pension funds and other organizations; earnings on holding company assets; and, a discontinued voluntary pools business. We present the separate financial information of each segment consistent with the manner in which our chief operating decision maker evaluates results in deciding how to allocate resources and in assessing performance.

We report interest expense on debt separately from the earnings of our operating segments. This consists of interest on our senior debentures, subordinated debentures, collateralized borrowings with the Federal Home Loan Bank of Boston ("FHLBB"), and letter of credit facility.

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Results of Operations – Consolidated

Consolidated net income for the three months ended September 30, 2016 was \$88.4 million, compared to \$78.3 million for the three months ended September 30, 2015, an increase of \$10.1 million. Operating income for the three months ended September 30, 2016 was \$78.6 million, compared to \$72.2 million for the three months ended September 30, 2015, contributing \$6.4 million to this increase. Additionally, the three months ended September 30, 2015 included losses from the repayment of debt of \$5.6 million that did not recur in the third quarter of 2016.

Consolidated net income for the nine months ended September 30, 2016 was \$168.6 million, compared to \$253.9 million for the nine months ended September 30, 2015. The decrease of \$85.3 million is primarily due to three large non-operating items. First, we recognized a loss from the repayment of debt of \$56.0 million, net of tax, for the nine months ended September 30, 2016, compared to \$15.7 million, net of tax, for the nine months ended September 30, 2015. Second, consolidated net income for the nine months ended September 30, 2015 included a \$40.3 million net gain on the 2015 disposal of our U.K. motor business. Third, net realized investment gains decreased by \$25.0 million pre-tax and \$11.7 million, net of taxes, in the nine months ended September 30, 2016 as compared to the nine months ended September 30, 2015. Operating income for the nine months ended September 30, 2016 was \$204.1 million, compared to \$199.7 million for the nine months ended September 30, 2015.

The following table reflects operating income, a non-GAAP measure, for each operating segment and a reconciliation of operating income to consolidated net income.

(in millions)	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
Operating income (loss) before interest expense and income taxes:				
Commercial Lines	\$ 42.5	\$ 47.1	\$ 129.2	\$ 126.5
Personal Lines	41.7	37.2	136.2	91.6
Chaucer	48.4	41.2	87.6	132.4
Other	(2.8)	(2.9)	(8.1)	(8.0)
Operating income before interest expense and income taxes	129.8	122.6	344.9	342.5
Interest expense on debt	(12.5)	(14.8)	(42.8)	(45.9)
Operating income before income taxes	117.3	107.8	302.1	296.6
Income tax expense on operating income	(38.7)	(35.6)	(98.0)	(96.9)
Operating income	78.6	72.2	204.1	199.7
Gain on disposal of U.K. motor business, net of tax	-	-	0.9	40.3
Other non-operating items:				
Net realized investment gains	4.2	8.0	5.0	30.0
Net loss from repayment of debt	-	(5.6)	(86.1)	(24.1)
Other	2.5	0.2	2.8	(0.2)
Income tax benefit on non-operating items	3.0	2.4	41.6	7.3
Income from continuing operations, net of taxes	88.3	77.2	168.3	253.0
Net gain from discontinued operations, net of taxes	0.1	1.1	0.3	0.9

Net income	\$ 88.4	\$ 78.3	\$ 168.6	\$ 253.9
Non-GAAP Financial Measures				

In addition to consolidated net income, discussed above, we assess our financial performance based upon pre-tax “operating income,” and we assess the operating performance of each of our four operating segments based upon the pre-tax operating income (loss) generated by each segment. As reflected in the table above, operating income before taxes excludes interest expense on debt and certain other items which we believe are not indicative of our core operations, such as net realized investment gains and losses. Such gains and losses are excluded since they are determined by interest rates, financial markets and the timing of sales. Also, operating income before taxes excludes net gains and losses on disposals of businesses, gains and losses related to the repayment of debt, discontinued operations, costs to acquire businesses, restructuring costs, the cumulative effect of accounting changes and certain other items. Although the items excluded from operating income before taxes may be important components in understanding and assessing our overall financial performance, we believe a discussion of operating income before taxes enhances an investor’s understanding of our results of operations by highlighting net income attributable to the core operations of the business. However, operating income before taxes, which is a non-GAAP measure, should not be construed as a substitute for income before income taxes and operating income should not be construed as a substitute for net income.

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Catastrophe losses and prior years' reserve development are significant components in understanding and assessing the financial performance of our business. Management reviews and evaluates catastrophes and prior years' reserve development separately from the other components of earnings. References to "current accident year underwriting results" exclude prior accident year reserve development. Catastrophes and prior years' reserve development are not predictable as to timing or the amount that will affect the results of our operations and have affected our results in past years. Management believes that providing certain financial metrics and trends excluding the effects of catastrophes and prior years' reserve development helps investors to understand the variability in periodic earnings and to evaluate the underlying performance of our operations. Discussion of catastrophe losses in this Management's Discussion and Analysis of Financial Condition and Results of Operations includes development on prior years' catastrophe reserves and, unless otherwise indicated, such development is excluded from discussions of prior year loss and LAE reserve development.

Results of Operations – Segments

The following is our discussion and analysis of the results of operations by business segment. The operating results are presented before interest expense, taxes and other items which management believes are not indicative of our core operations, including realized gains and losses.

The following table summarizes the results of operations for the periods indicated:

(in millions)	Three Months Ended		Nine Months Ended	
	September 30, 2016	2015	September 30, 2016	2015
Operating revenues				
Net premiums written	\$ 1,250.9	\$ 1,199.6	\$ 3,616.8	\$ 3,570.7
Net premiums earned	1,160.9	1,150.1	3,457.7	3,566.9
Net investment income	67.8	68.3	205.2	209.1
Other income	8.3	7.1	22.9	23.3
Total operating revenues	1,237.0	1,225.5	3,685.8	3,799.3
Losses and operating expenses				
Losses and LAE	692.0	690.7	2,121.3	2,208.7
Amortization of deferred acquisition costs	257.9	259.0	771.4	781.6
Other operating expenses	157.3	153.2	448.2	466.5
Total losses and operating expenses	1,107.2	1,102.9	3,340.9	3,456.8
Operating income before interest expense and income taxes	\$ 129.8	\$ 122.6	\$ 344.9	\$ 342.5

Three Months Ended September 30, 2016 Compared to Three Months Ended September 30, 2015

Operating income before interest expense and income taxes was \$129.8 million in the three months ended September 30, 2016, compared to \$122.6 million for the three months ended September 30, 2015, an increase of \$7.2 million. This increase is primarily due to lower catastrophe losses, partially offset by lower net favorable development on prior years' loss reserves. Overall catastrophe related activity in the quarter was \$26.9 million, compared to \$45.8 million in the same period of 2015, a decrease of \$18.9 million. Net favorable development on prior years' loss reserves was \$8.1 million in the quarter, compared to \$22.4 million in the same period in 2015, a decrease of \$14.3 million, including the effect of foreign exchange fluctuations.

Net premiums written increased by \$51.3 million in the three months ended September 30, 2016 compared to the three months ended September 30, 2015. This improvement was due to growth in our domestic lines.

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Production and Underwriting Results

The following table summarizes premiums written on a gross and net basis, net premiums earned and loss, LAE, expense and combined ratios for the Commercial Lines, Personal Lines and Chaucer segments. Loss, LAE, catastrophe loss and combined ratios shown below include prior year reserve development. These items are not meaningful for our Other segment.

(dollars in millions)	Three Months Ended September 30, 2016						
	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Catastrophe Loss Ratios	Loss & LAE Ratios	Expense Ratios	Combined Ratios
Commercial Lines	\$ 730.0	\$ 647.3	\$ 587.2	3.0	63.5	35.7	99.2
Personal Lines	428.7	407.5	371.5	3.3	64.1	29.0	93.1
Chaucer	243.5	196.1	202.2	(1.5)	39.9	41.4	81.3
Total	\$ 1,402.2	\$ 1,250.9	\$ 1,160.9	2.3	59.6	34.6	94.2

(dollars in millions)	Three Months Ended September 30, 2015						
	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Catastrophe Loss Ratios	Loss & LAE Ratios	Expense Ratios	Combined Ratios
Commercial Lines	\$ 701.2	\$ 617.6	\$ 560.4	2.5	62.5	35.8	98.3
Personal Lines	403.0	383.3	358.6	5.6	66.1	28.1	94.2
Chaucer	275.5	198.7	231.1	5.1	44.6	42.6	87.2
Total	\$ 1,379.7	\$ 1,199.6	\$ 1,150.1	4.0	60.1	34.8	94.9

The following table summarizes net premiums written, and loss and LAE and catastrophe loss ratios by line of business for the Commercial Lines and Personal Lines segments. Loss and LAE and catastrophe loss ratios include prior year reserve development.

Three Months Ended September 30,
2016

2015

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(dollars in millions)	Net Premiums Written	Loss & LAE Ratios	Catastrophe Loss Ratios	Net Premiums Written	Loss & LAE Ratios	Catastrophe Loss Ratios
Commercial Lines:						
Commercial multiple peril	\$ 229.3	61.5	6.6	\$ 218.3	59.6	3.3
Commercial automobile	81.7	75.9	2.2	81.7	71.0	(0.4)
Workers' compensation	73.6	63.3	-	66.0	60.8	-
Other commercial	262.7	61.3	1.2	251.6	62.4	3.4
Total Commercial Lines	\$ 647.3	63.5	3.0	\$ 617.6	62.5	2.5
Personal Lines:						
Personal automobile	\$ 249.6	71.8	1.6	\$ 232.3	69.9	1.0
Homeowners	147.5	52.9	6.5	140.7	62.2	13.8
Other personal	10.4	26.9	1.1	10.3	26.6	5.3
Total Personal Lines	\$ 407.5	64.1	3.3	\$ 383.3	66.1	5.6

The following table summarizes premiums written on a gross and net basis and net premiums earned by line of business for the Chaucer segment.

(in millions)	Three Months Ended September 30, 2016			2015		
	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Gross Premiums Written	Net Premiums Written	Net Premiums Earned
Chaucer:						
Marine and aviation	\$ 85.6	\$ 67.0	\$ 66.8	\$ 81.5	\$ 70.4	\$ 71.2
U.K. motor	-	-	-	46.3	-	-
Property	39.6	34.5	38.8	32.4	29.5	42.5
Energy	28.8	18.8	25.2	28.9	21.4	41.1
Casualty and other	89.5	75.8	71.4	86.4	77.4	76.3
Total Chaucer	\$ 243.5	\$ 196.1	\$ 202.2	\$ 275.5	\$ 198.7	\$ 231.1

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The following table summarizes underwriting results for the Commercial Lines, Personal Lines, Chaucer and Other segments and reconciles it to operating income.

(in millions)	Three Months Ended September 30, 2016					2015				
	Commercial Lines	Personal Lines	Chaucer	Other	Total	Commercial Lines	Personal Lines	Chaucer	Other	Total
Underwriting profit (loss), excluding prior year reserve										
development and catastrophes	\$ 40.6	\$ 34.5	\$ 8.1	\$ (0.5)	\$ 82.7	\$ 33.9	\$ 35.5	\$ 9.4	\$ (0.5)	\$ 78.3
Prior year favorable (unfavorable)										
loss and LAE reserve development on non-catastrophe losses	(19.3)	1.1	26.6	(0.3)	8.1	(11.8)	2.5	32.1	(0.4)	22.4
Prior year favorable (unfavorable)										
catastrophe development	(1.3)	(1.5)	3.5	-	0.7	(3.7)	(1.2)	17.3	-	12.4
Current year catastrophe losses	(16.4)	(10.8)	(0.4)	-	(27.6)	(10.1)	(18.9)	(29.2)	-	(58.2)
Underwriting profit (loss)	3.6	23.3	37.8	(0.8)	63.9	8.3	17.9	29.6	(0.9)	54.9
Net investment income	39.0	17.1	10.3	1.4	67.8	38.7	18.0	10.5	1.1	68.3
Fees and other income	2.2	2.9	2.5	0.7	8.3	2.1	3.1	1.1	0.8	7.1
Other operating (expenses) income	(2.3)	(1.6)	(2.2)	(4.1)	(10.2)	(2.0)	(1.8)	-	(3.9)	(7.7)
Operating income (loss) before										
interest expense and income taxes	\$ 42.5	\$ 41.7	\$ 48.4	\$ (2.8)	\$ 129.8	\$ 47.1	\$ 37.2	\$ 41.2	\$ (2.9)	\$ 122.6
Commercial Lines										

Commercial Lines net premiums written were \$647.3 million in the three months ended September 30, 2016, compared to \$617.6 million in the three months ended September 30, 2015. This \$29.7 million increase was primarily driven by pricing increases, strong retention, and targeted new business expansion.

Commercial Lines underwriting profit for the three months ended September 30, 2016 was \$3.6 million, compared to \$8.3 million for the three months ended September 30, 2015, a decrease of \$4.7 million. Catastrophe-related losses for the three months ended September 30, 2016 were \$17.7 million, compared to \$13.8 million for the three months ended September 30, 2015, an increase of \$3.9 million. Unfavorable development on prior years' loss reserves for the three months ended September 30, 2016 was \$19.3 million, compared to \$11.8 million for the three months ended September 30, 2015, an unfavorable change of \$7.5 million. There was unfavorable prior year reserve development in our commercial multiple peril liability and AIX program businesses in both periods, although in the third quarter of 2015, this was partially offset by favorable prior accident year reserve development within our umbrella and

miscellaneous property coverages that did not recur in 2016.

Commercial Lines current accident year underwriting profit, excluding catastrophes, was \$40.6 million for the three months ended September 30, 2016, compared to \$33.9 million for the three months ended September 30, 2015. This \$6.7 million increase was primarily due to premium growth and to an improvement in property results in our commercial multiple peril line.

The Company has continued to achieve price increases in the Commercial Lines segment, particularly in its small commercial and various specialty business areas. However, the pricing environment continues to be competitive. Our ability to achieve rate increases in the future, particularly in the middle market where competition for business is currently most intense, will be affected by the pricing environment, the overall economic environment and other factors. Subject to these factors, as a normal function of the underwriting process, we are continuing efforts to improve our results through the combination of pricing increases, changes to our mix of business, optimizing our franchise agency distribution model and other underwriting actions.

Personal Lines

Personal Lines net premiums written were \$407.5 million in the three months ended September 30, 2016, compared to \$383.3 million in the three months ended September 30, 2015, an increase of \$24.2 million. This was primarily due to increased rates in both our personal automobile and homeowners lines of business, as well as improved retention and new business trends.

Net premiums written in the personal automobile line of business for the three months ended September 30, 2016 were \$249.6 million compared to \$232.3 million for the three months ended September 30, 2015, an increase of \$17.3 million. This was primarily due to rate increases, which offset a decline in policies in force of 0.6%. Net premiums written in the homeowners line of business for the three months ended September 30, 2016 were \$147.5 million compared to \$140.7 million for the three months ended September 30, 2015, an increase of \$6.8 million. This is attributable to rate increases, as well as an increase in policies in force of 0.3%. Since December 31, 2015, policies in force have remained relatively consistent in both the homeowners and personal automobile lines.

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Personal Lines underwriting profit for the three months ended September 30, 2016 was \$23.3 million, compared to \$17.9 million for the three months ended September 30, 2015, an improvement of \$5.4 million. Catastrophe losses for the three months ended September 30, 2016 were \$12.3 million, compared to \$20.1 million for the three months ended September 30, 2015, a decrease of \$7.8 million. Favorable development on prior years' loss reserves for the three months ended September 30, 2016 was \$1.1 million, compared to \$2.5 million for the three months ended September 30, 2015, a decrease of \$1.4 million.

Personal Lines current accident year underwriting profit, excluding catastrophes, was \$34.5 million in the three months ended September 30, 2016, compared to \$35.5 million for the three months ended September 30, 2015. This \$1.0 million decline was primarily a result of higher performance-based agency compensation expenses due to overall improvement in our catastrophe and non-catastrophe loss performance. Also, an increase in personal automobile losses due to higher severity of property and physical damage claims was largely offset by favorable non-catastrophe loss experience in the homeowners line.

Although we have been able to obtain rate increases in our Personal Lines markets and believe that our ability to obtain these increases will continue, our ability to maintain Personal Lines net premiums written and to maintain and improve underwriting results may be affected by price competition, and regulatory and legal developments, as well as by future exposure and portfolio management actions. We monitor these trends and consider them in our rate actions.

Chaucer

Chaucer's gross premiums written were \$243.5 million for the three months ended September 30, 2016, compared to \$275.5 million for the three months ended September 30, 2015. Excluding the U.K. motor business, Chaucer's gross premiums written increased by \$14.3 million or 6.2% in the three months ended September 30, 2016, primarily in our marine and property lines. Chaucer's net premiums written were \$196.1 million for the three months ended September 30, 2016, compared to \$198.7 million for the three months ended September 30, 2015, a decrease of \$2.6 million or 1.3%. This decrease is primarily due to a planned increase in ceded reinsurance premiums as we continue to manage our overall underwriting risk given the challenging market conditions, partially offset by the aforementioned increase in volume in our marine and property lines of business.

Chaucer's underwriting profit for the three months ended September 30, 2016 was \$37.8 million, compared to an underwriting profit of \$29.6 million for the three months ended September 30, 2015, an increase of \$8.2 million. This increase is primarily due to lower catastrophe losses, partially offset by lower favorable development on prior year reserves. Catastrophe losses for the three months ended September 30, 2016 were \$(3.1) million, compared to \$11.9 million for the three months ended September 30, 2015, a change of \$15.0 million. Current quarter catastrophe losses of \$3.6 million were more than offset by favorable catastrophe reserve development of \$6.7 million from both second quarter and prior year events. Favorable development on prior years' loss reserves for the three months ended September 30, 2016 was \$26.6 million, compared to \$32.1 million for the three months ended September 30, 2015, a decrease of \$5.5 million, including the effect of foreign exchange fluctuations (See "Foreign Exchange" section below for further discussion).

Chaucer's current accident year underwriting profit, excluding catastrophes, was \$8.1 million in the three months ended September 30, 2016, compared to \$9.4 million for the three months ended September 30, 2015. This \$1.3 million decline was primarily due to higher current accident year losses in our marine line of business, including trade credit coverages related to poor market conditions and underlying commodity price-sensitive accounts, partially offset by lower large losses in our energy line.

The international insurance industry continues to experience significant competition. High industry capacity and a continued reduced frequency of major losses are adversely affecting pricing and underwriting conditions in many of

our markets. There can be no assurance that we will be able to maintain adequate rates in light of economic and regulatory conditions in our markets. Additionally, because of the inherently volatile nature of losses in many of our product lines, we may continue to experience large losses or an elevated level of losses from these or other product lines.

Other

Other operating loss was \$2.8 million for the three months ended September 30, 2016, compared to \$2.9 million for the three months ended September 30, 2015, a change of \$0.1 million.

Nine Months Ended September 30, 2016 Compared to Nine Months Ended September 30, 2015

Operating income before interest expense and income taxes was \$344.9 million in the nine months ended September 30, 2016, compared to \$342.5 million for the nine months ended September 30, 2015, an increase of \$2.4 million. This improvement is primarily due to lower catastrophes and lower current accident year losses, partially offset by lower net favorable development on prior year reserves. Catastrophe related activity in the nine months ended September 30, 2016 was \$109.1 million, compared to \$154.6 million in the same period of 2015, a decrease of \$45.5 million. Lower current accident year losses in most lines of our domestic segments were partially offset by higher large losses in our Chaucer segment. Net favorable development on prior years' loss reserves was \$3.1 million in the nine months ended September 30, 2016, compared to \$76.2 million in the same period in 2015, an unfavorable change of \$73.1 million, including the effect of foreign exchange fluctuations.

Net premiums written increased by \$46.1 million in the nine months ended September 30, 2016 compared to the same period in 2015. This increase was primarily a result of growth in our domestic lines, partially offset by a planned increase in ceded reinsurance premiums in the Chaucer business and lower premium volumes in Chaucer's energy line.

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Production and Underwriting Results

The following table summarizes premiums written on a gross and net basis, net premiums earned and loss, LAE, expense and combined ratios for the Commercial Lines, Personal Lines and Chaucer segments. Loss, LAE, catastrophe loss and combined ratios shown below include prior year reserve development. These items are not meaningful for our Other segment.

	Nine Months Ended September 30, 2016						
(dollars in millions)	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Catastrophe Loss Ratios	Loss & LAE Ratios	Expense Ratios	Combined Ratios
Commercial Lines	\$ 2,073.0	\$ 1,831.5	\$ 1,733.3	3.6	63.1	36.0	99.1
Personal Lines	1,202.1	1,139.8	1,094.8	3.2	63.7	28.2	91.9
Chaucer	904.1	645.5	629.6	1.8	52.2	39.3	91.5
Total	\$ 4,179.2	\$ 3,616.8	\$ 3,457.7	3.2	61.4	34.1	95.5
	Nine Months Ended September 30, 2015						
(dollars in millions)	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Catastrophe Loss Ratios	Loss & LAE Ratios	Expense Ratios	Combined Ratios
Commercial Lines	\$ 2,000.1	\$ 1,768.6	\$ 1,663.6	4.3	63.1	36.1	99.2
Personal Lines	1,153.9	1,088.0	1,068.2	6.2	68.2	27.9	96.1
Chaucer	1,116.2	714.1	835.1	2.1	51.4	37.5	88.9
Total	\$ 4,270.2	\$ 3,570.7	\$ 3,566.9	4.3	61.9	34.0	95.9

The following table summarizes net premiums written, and loss and LAE and catastrophe loss ratios by line of business for the Commercial Lines and Personal Lines segments. Loss and LAE and catastrophe loss ratios include prior year reserve development.

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(dollars in millions)	Nine Months Ended September 30, 2016			2015		
	Net Premiums Written	Loss & LAE Ratios	Catastrophe Loss Ratios	Net Premiums Written	Loss & LAE Ratios	Catastrophe Loss Ratios
Commercial Lines:						
Commercial multiple peril	\$ 618.9	61.8	7.4	\$ 586.8	61.5	7.8
Commercial automobile	238.9	75.4	1.1	237.6	73.7	0.2
Workers' compensation	222.4	60.7	-	207.5	62.6	-
Other commercial	751.3	61.0	2.4	736.7	61.1	4.0
Total Commercial Lines	\$ 1,831.5	63.1	3.6	\$ 1,768.6	63.1	4.3
Personal Lines:						
Personal automobile	\$ 717.2	71.1	0.8	\$ 681.5	70.7	0.5
Homeowners	394.0	52.4	7.7	377.8	66.2	16.5
Other personal	28.6	43.2	1.4	28.7	35.1	3.1
Total Personal Lines	\$ 1,139.8	63.7	3.2	\$ 1,088.0	68.2	6.2

The following table summarizes premiums written on a gross and net basis and net premiums earned by line of business for the Chaucer segment.

(in millions)	Nine Months Ended September 30, 2016			2015		
	Gross Premiums Written	Net Premiums Written	Net Premiums Earned	Gross Premiums Written	Net Premiums Written	Net Premiums Earned
Chaucer:						
Marine and aviation	\$ 281.8	\$ 205.2	\$ 195.0	\$ 277.6	\$ 224.2	\$ 214.0
U.K. motor	-	-	-	185.9	(8.3)	135.4
Property	214.7	127.6	109.9	212.7	143.2	125.7
Energy	131.7	76.2	100.8	162.7	107.1	140.0
Casualty and other	275.9	236.5	223.9	277.3	247.9	220.0
Total Chaucer	\$ 904.1	\$ 645.5	\$ 629.6	\$ 1,116.2	\$ 714.1	\$ 835.1

The following table summarizes underwriting results for the Commercial Lines, Personal Lines, Chaucer and Other segments and reconciles it to operating income.

(in millions)	Nine Months Ended September 30, 2016					2015				
	Commercial Lines	Personal Lines	Chaucer	Other	Total	Commercial Lines	Personal Lines	Chaucer	Other	Total
Underwriting profit (loss), excluding prior year reserve	\$ 136.4	\$ 115.6	\$ 0.5	\$ (1.2)	\$ 251.3	\$ 100.5	\$ 94.2	\$ 20.6	\$ (1.3)	\$ 214.0
development and catastrophes										
Prior year favorable (unfavorable)										
loss and LAE reserve										
development on										
non-catastrophe losses	(61.5)	0.9	64.6	(0.9)	3.1	(18.7)	6.6	89.3	(1.0)	76.2
Prior year favorable (unfavorable)										
catastrophe development	(0.3)	(4.3)	25.3	-	20.7	2.4	(8.3)	22.2	-	16.3
Current year catastrophe losses	(62.2)	(31.0)	(36.6)	-	(129.8)	(73.3)	(58.2)	(39.4)	-	(170.9)
Underwriting profit (loss)	12.4	81.2	53.8	(2.1)	145.3	10.9	34.3	92.7	(2.3)	135.6
Net investment income	117.5	51.6	32.3	3.8	205.2	116.7	54.2	34.8	3.4	209.1
Fees and other income	6.4	8.4	6.0	2.1	22.9	6.4	9.0	5.6	2.3	23.3
Other operating (expenses) income	(7.1)	(5.0)	(4.5)	(11.9)	(28.5)	(7.5)	(5.9)	(0.7)	(11.4)	(25.5)
Operating income (loss) before										
interest expense and income taxes	\$ 129.2	\$ 136.2	\$ 87.6	\$ (8.1)	\$ 344.9	\$ 126.5	\$ 91.6	\$ 132.4	\$ (8.0)	\$ 349.5
Commercial Lines										

Commercial Lines net premiums written were \$1,831.5 million in the nine months ended September 30, 2016, compared to \$1,768.6 million in the nine months ended September 30, 2015. This \$62.9 million increase was primarily driven by pricing increases, strong retention, and targeted new business expansion.

Commercial Lines underwriting profit for the nine months ended September 30, 2016 was \$12.4 million, compared to \$10.9 million for the nine months ended September 30, 2015, an increase of \$1.5 million. Catastrophe-related losses for the nine months ended September 30, 2016 were \$62.5 million, compared to \$70.9 million for the nine months ended September 30, 2015, a decrease of \$8.4 million. Unfavorable development on prior years' loss reserves for the nine months ended September 30, 2016 was \$61.5 million, compared to \$18.7 million for the nine months ended September 30, 2015, an unfavorable change of \$42.8 million primarily due to unfavorable development in our commercial multiple peril liability and AIX program businesses. This was partially offset in the nine months ended September 30, 2015 by favorable development within certain of our other commercial lines, specifically, our umbrella, healthcare, general liability, and marine coverages, which did not recur in 2016.

Commercial Lines current accident year underwriting profit, excluding catastrophes, was \$136.4 million for the nine months ended September 30, 2016, compared to \$100.5 million for the nine months ended September 30, 2015. This \$35.9 million increase was primarily due to improved current accident year loss performance, primarily due to

property coverages in our commercial multiple peril and inland marine lines.

Personal Lines

Personal Lines net premiums written were \$1,139.8 million in the nine months ended September 30, 2016, compared to \$1,088.0 million in the nine months ended September 30, 2015, an increase of \$51.8 million. This was primarily due to increased rates in both our personal automobile and homeowners lines of business, as well as improved retention and new business trends.

Net premiums written in the personal automobile line of business for the nine months ended September 30, 2016 were \$717.2 million compared to \$681.5 million for the nine months ended September 30, 2015, an increase of \$35.7 million. This was primarily due to rate increases, which offset a decline in policies in force of 0.6%. Net premiums written in the homeowners line of business for the nine months ended September 30, 2016 were \$394.0 million compared to \$377.8 million for the nine months ended September 30, 2015, an increase of \$16.2 million. This is attributable to rate increases, as well as an increase in policies in force of 0.3%. Since December 31, 2015, policies in force have remained relatively consistent in both the homeowners and personal automobile lines.

Personal Lines underwriting profit for the nine months ended September 30, 2016 was \$81.2 million, compared to \$34.3 million for the nine months ended September 30, 2015, an improvement of \$46.9 million. Catastrophe losses for the nine months ended September 30, 2016 were \$35.3 million, compared to \$66.5 million for the nine months ended September 30, 2015, a decrease of \$31.2 million. Favorable development on prior years' loss reserves for the nine months ended September 30, 2016 was \$0.9 million, compared to \$6.6 million for the nine months ended September 30, 2015, a decrease of \$5.7 million.

Personal Lines current accident year underwriting profit, excluding catastrophes, was \$115.6 million in the nine months ended September 30, 2016, compared to \$94.2 million for the nine months ended September 30, 2015. This \$21.4 million increase was primarily a result of lower weather-related property losses, primarily in our homeowners line, as well as rate increases.

Chaucer

Chaucer's gross premiums written were \$904.1 million for the nine months ended September 30, 2016, compared to \$1,116.2 million for the nine months ended September 30, 2015. Excluding the U.K. motor business, Chaucer's gross premiums written declined by \$26.2 million or 2.8% in the nine months ended September 30, 2016, primarily due to lower premium volumes in our energy line, where underwriting conditions continued to reflect the effects of low oil prices. Chaucer's net premiums written were \$645.5 million for the nine months ended September 30, 2016, compared to \$714.1 million for the nine months ended September 30, 2015. This decline of \$68.6 million or 9.6% is primarily due to a planned increase in ceded reinsurance premiums as we continue to manage our overall underwriting risk given the challenging market conditions, as well as from the aforementioned lower premium volumes in the energy line.

Chaucer's underwriting profit for the nine months ended September 30, 2016 was \$53.8 million, compared to \$92.7 million for the nine months ended September 30, 2015, a decrease of \$38.9 million. This decrease is primarily due to higher current accident year losses and lower favorable development of prior year reserves, partially offset by lower catastrophe losses. Favorable development on prior years' loss reserves for the nine months ended September 30, 2016 was \$64.6 million, compared to \$89.3 million for the nine months ended September 30, 2015, a decrease of \$24.7 million, including the effect of foreign exchange fluctuations (see "Foreign Exchange" section below for further discussion). Catastrophe losses for the nine months ended September 30, 2016 were \$11.3 million, compared to \$17.2 million for the nine months ended September 30, 2015, a decrease of \$5.9 million.

Chaucer's current accident year underwriting profit, excluding catastrophes, was \$0.5 million in the nine months ended September 30, 2016, compared to \$20.6 million for the nine months ended September 30, 2015. This \$20.1 million decline was primarily due to higher large losses in our marine line of business, including trade credit coverages related to poor market conditions and underlying commodity price-sensitive accounts, partially offset by lower large losses in our energy line.

Foreign Exchange

Most of Chaucer's transactions are denominated in the currencies that we use to settle transactions with Lloyd's, specifically the U.S. Dollar, the U.K. Pound Sterling ("GBP") and the Canadian Dollar. These are Chaucer's functional currencies under U.S. GAAP. A portion of Chaucer's transactions and its assets and liabilities are denominated in other currencies, such as the Euro, the Swiss Franc, the Australian Dollar and the Japanese Yen. Changes in the value of these currencies versus the functional currencies, particularly versus the GBP, cause transactional gains and losses during each reporting period. During the three and nine months ended September 30, 2016, the GBP weakened meaningfully against most currencies. We believe that this was due, in large part, to the effect of the U.K.'s referendum vote to discontinue its membership in the European Union ("Brexit Referendum"). In contrast, during the three and nine months ended September 30, 2015, the GBP strengthened against most currencies. The following table summarizes the total effect of Chaucer's foreign exchange transactional gains and losses on comprehensive income:

	Three Months Ended September 30,		Nine Months Ended September 30,	
	2016	2015	2016	2015
in millions				
Effect of revaluing loss and LAE reserves	\$ (10.4)	\$ 1.2	\$ (43.6)	\$ 20.2
Effect of revaluing overseas deposits and cash	3.3	(3.0)	13.0	(4.0)
Effect of revaluing premium receivables	0.3	(1.2)	3.1	(1.4)
Total FX effect on segment income	\$ (6.8)	\$ (3.0)	\$ (27.5)	\$ 14.8
FX losses reflected in realized gains/losses	-	-	(0.7)	(3.2)
Total FX effect on pre-tax income	\$ (6.8)	\$ (3.0)	\$ (28.2)	\$ 11.6
Unrealized FX gains (losses) from investment securities	2.1	2.5	9.6	(1.2)
Total pre-tax effect of transactional FX gains (losses) on comprehensive income	\$ (4.7)	\$ (0.5)	\$ (18.6)	\$ 10.4
Tax benefit (expense)	1.6	0.2	6.5	(3.6)
Total effect of transactional FX gains (losses) on comprehensive income	\$ (3.1)	\$ (0.3)	\$ (12.1)	\$ 6.8

During the three and nine months ended September 30, 2016, foreign exchange losses reduced pre-tax segment income by approximately \$6.8 million and \$28.2 million, respectively, compared to foreign exchange losses in pre-tax segment income of approximately \$3.0 million and gains of \$11.6 million, respectively, for the three and nine months ended September 30, 2015. These items result primarily from the revaluation of loss and LAE reserves in various currencies, particularly the Euro, the Australian Dollar and the Japanese Yen, partially offset by the revaluation of investments in overseas deposits and cash. During the three and nine months ended September 30, 2016, pre-tax unrealized foreign exchange gains from Euro-denominated investment securities were \$2.1 million and \$9.6 million, respectively, which were reflected as an increase to accumulated other comprehensive income. During the three and nine months ended September 30, 2015 the pre-tax unrealized foreign exchange impact from Euro-denominated investment securities were gains of \$2.5 million and losses of \$1.2 million, respectively.

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Although we endeavor to balance assets and liabilities for our foreign currencies, a certain level of net exposure to exchange rate fluctuations persists. We monitor and seek to limit the extent of this exposure. Although these transactional foreign exchange gains and losses are unlikely to be material to our financial position, they may be more significant to our financial results of operations in any one period.

Other

Other operating loss was \$8.1 million for the nine months ended September 30, 2016, compared to \$8.0 million for the nine months ended September 30, 2015, a change of \$0.1 million.

Reserve for Losses and Loss Adjustment Expenses

The table below provides a reconciliation of the gross beginning and ending reserve for unpaid losses and loss adjustment expenses.

(in millions)	Nine Months Ended	
	September 30,	
	2016	2015
Gross loss and LAE reserves, beginning of period	\$ 6,574.4	\$ 6,391.7
Reinsurance recoverable on unpaid losses	2,280.8	1,983.0
Net loss and LAE reserves, beginning of period	4,293.6	4,408.7
Net incurred losses and LAE in respect of losses occurring in:		
Current year	2,145.1	2,301.2
Prior year non-catastrophe loss development	(3.1)	(76.2)
Prior year catastrophe development	(20.7)	(16.3)
Total incurred losses and LAE	2,121.3	2,208.7
Net payments of losses and LAE in respect of losses occurring in:		
Current year	775.1	865.4
Prior years	1,088.3	1,133.3
Total payments	1,863.4	1,998.7
Disposition of U.K. motor business	-	(300.6)
Effect of foreign exchange rate fluctuations	(52.6)	(20.3)
Net reserve for losses and LAE, end of period	4,498.9	4,297.8
Reinsurance recoverable on unpaid losses	2,303.4	2,308.5
Gross reserve for losses and LAE, end of period	\$ 6,802.3	\$ 6,606.3

The table below summarizes the gross reserve for losses and LAE by line of business.

(in millions)	September 30, 2016	December 31, 2015
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Commercial multiple peril	\$ 791.2	\$ 725.1
Workers' compensation	641.6	615.2
Commercial automobile	352.9	336.2
AIX	403.8	398.6
Other	676.8	599.1
Total Commercial and Other	2,866.3	2,674.2
Personal automobile	1,411.7	1,407.5
Homeowners and other	133.3	120.2
Total Personal	1,545.0	1,527.7
Total Chaucer	2,391.0	2,372.5
Total loss and LAE reserves	\$ 6,802.3	\$ 6,574.4

Other lines are primarily comprised of our general liability, professional and management liability, umbrella, marine, surety, voluntary pools, and healthcare lines. Included in the above table, primarily in other lines, are \$37.7 million and \$57.7 million of asbestos and environmental reserves as of September 30, 2016 and December 31, 2015, respectively. Included in the Chaucer segment in the above table are \$140.7 million and \$166.0 million of reserves as of September 30, 2016 and December 31, 2015, respectively, related to Chaucer's financial and professional liability lines written in 2008 and prior periods.

Prior Year Development

Loss and LAE reserves for claims, including catastrophe losses, occurring in prior years developed favorably by \$23.8 million for the nine months ended September 30, 2016, compared to favorable development of \$92.5 million for the nine months ended September 30, 2015.

The primary drivers of reserve development for the nine months ended September 30, 2016 were as follows:

- Lower than expected losses of \$89.9 million within Chaucer's business as follows:
 - property line, primarily in the 2013 through 2015 accident years;
 - marine and aviation lines, primarily in the 2014 and 2015 accident years for aviation and the 2008, 2009, 2014 and 2015 accident years for marine;
 - within casualty and other lines, specialist and international liability lines, primarily in the 2014 and prior accident years; and
 - energy line, primarily in the 2014 and 2015 accident years.
- This favorable development discussed above was partially offset by the unfavorable effect of foreign exchange fluctuations of \$43.6 million (see "Foreign Exchange" section above for further discussion).
- Lower than expected losses within our workers' compensation line of \$14.7 million, primarily related to accident years 2013 through 2015.

Partially offsetting the favorable development discussed above was:

- Higher than expected losses in the following lines of business:
 - Other commercial lines of \$37.3 million, primarily in the AIX program business in accident years 2013 and prior, principally driven by programs and other business classes which have since been terminated, and in general liability coverages in accident years 2013 and 2014;
 - Commercial multiple peril lines of \$30.1 million, primarily in liability coverages in accident years 2012 through 2014, driven in part by an elevated number of litigated cases associated with slip and fall claims; and
 - Commercial automobile line, primarily related to liability coverages related to accident years 2012 through 2014.

The primary drivers of reserve development for the nine months ended September 30, 2015 were as follows:

- Lower than expected losses of \$111.5 million within Chaucer's business as follows:
 - energy line, primarily in the 2012 through 2014 accident years;
 - property line, primarily in the 2013 and 2014 accident years.

- marine and aviation lines, primarily in the 2011, 2013 and 2014 accident years;
- favorable impact of foreign exchange rate movements on prior years' loss reserves of \$20.2 million (See "Foreign Exchange" section above for further discussion); and
- within casualty and other lines, specialist and international liability lines, primarily in the 2012 and 2013 accident years.
- Lower than expected losses of \$11.5 million within our workers' compensation line, primarily related to accident years 2010 through 2014.

Partially offsetting the favorable development discussed above was higher than expected losses in the following lines of business:

- Other commercial lines of \$18.8 million, primarily in the AIX program business in accident years 2013 and prior and in general liability coverages in accident years 2011 and 2012, partially offset by lower than expected losses related to our umbrella, healthcare, and marine lines in accident years 2009 through 2014.

It is not possible to know whether the factors that affected loss reserves in the first nine months of 2016 will also occur in future periods. As discussed in detail in our Form 10-K for the year ended December 31, 2015, there are inherent uncertainties in estimating reserves for losses and LAE. The Company annually conducts a comprehensive actuarial review of its loss and LAE reserves, which is expected to be completed over the course of the fourth quarter. Such review could result in changes in estimates for carried reserves. We encourage you to read our Form 10-K for more information about our reserving process and the judgments, uncertainties and risks associated therewith.

Investments

Investment Results

Net investment income before taxes decreased \$0.5 million, or 0.7%, to \$67.8 million for the three months ended September 30, 2016 and \$3.9 million, or 1.9%, to \$205.2 million for the nine months ended September 30, 2016. The decrease in both periods was primarily due to the impact of lower investment assets resulting from our repurchases of stock and repayment of debt, and to the impact of lower new money yields. The nine months ended September 30, 2016 was also impacted by the effect of lower investment assets resulting from the transfer of the U.K. motor business in 2015. These decreases were partially offset by the investment of higher operational cash flows and additional income from our other asset classes such as commercial mortgage loan participations, partnerships and equities. Average pre-tax earned yields on fixed maturities were 3.43% and 3.64% for the three months ended September 30, 2016 and 2015, respectively, and 3.51% and 3.61% for the nine months ended September 30, 2016 and 2015, respectively. We expect average fixed maturity investment yields to continue to decline as new money rates remain lower than embedded book yields. Total pre-tax earned yields were 3.31% and 3.45% for the three months ended September 30, 2016 and 2015, respectively, and 3.36% and 3.43% for the nine months ended September 30, 2016 and 2015, respectively.

Investment Portfolio

We held cash and investment assets diversified across several asset classes, as follows:

	September 30, 2016	December 31, 2015
(dollars in millions)		

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	Carrying Value	% of Total Carrying Value	%	Carrying Value	% of Total Carrying Value	%
Fixed maturities, at fair value	\$ 7,400.2	84.0	%	\$ 6,983.4	84.2	%
Equity securities, at fair value	612.5	6.9		576.6	7.0	
Other investments	483.4	5.5		393.4	4.7	
Cash and cash equivalents	315.9	3.6		338.8	4.1	
Total cash and investments	\$ 8,812.0	100.0	%	\$ 8,292.2	100.0	%

Cash and Investments

Total cash and investments increased \$519.8 million, or 6.3%, for the nine months ended September 30, 2016, primarily due to operational cashflows and market value appreciation, partially offset by the funding of financing activities including stock repurchases and debt retirement.

The following table provides information about the investment types of our fixed maturities portfolio:

(in millions)	September 30, 2016		Net Unrealized Gain	Change in Net Unrealized During 2016
	Amortized Cost	Fair Value		
Investment Type				
U.S. Treasury and government agencies	\$ 311.1	\$ 320.4	\$ 9.3	\$ 7.3
Foreign government	234.5	242.7	8.2	7.1
Municipals:				
Taxable	963.2	1,023.9	60.7	17.8
Tax exempt	108.6	112.5	3.9	1.0
Corporate	3,937.4	4,108.2	170.8	179.7
Asset-backed:				
Residential mortgage-backed	921.8	944.3	22.5	14.0
Commercial mortgage-backed	546.5	569.8	23.3	21.8
Asset-backed	77.3	78.4	1.1	1.7
Total fixed maturities	\$ 7,100.4	\$ 7,400.2	\$ 299.8	\$ 250.4

The increase in net unrealized gains on fixed maturities was primarily due to lower prevailing interest rates, and to a lesser extent, narrower credit spreads.

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Amortized cost and fair value by rating category were as follows:

		September 30, 2016			December 31, 2015		
(dollars in millions)							
NAIC Designation	Rating Agency Equivalent Designation	Amortized Cost	Fair Value	% of Total Fair Value	Amortized Cost	Fair Value	% of Total Fair Value
1	Aaa/Aa/A	\$ 4,786.7	\$ 4,990.1	67.4 %	\$ 4,849.3	\$ 4,939.9	70.7 %
2	Baa	1,893.5	1,972.5	26.7	1,648.3	1,646.0	23.6
3	Ba	210.7	219.6	3.0	219.4	206.4	3.0
4	B	195.7	202.9	2.7	185.0	172.3	2.5
5	Caa and lower	11.6	11.6	0.2	26.6	15.6	0.2
6	In or near default	2.2	3.5	-	5.4	3.2	-
Total fixed maturities		\$ 7,100.4	\$ 7,400.2	100.0 %	\$ 6,934.0	\$ 6,983.4	100.0 %

Based on ratings by the National Association of Insurance Commissioners (“NAIC”), approximately 94% of the fixed maturity portfolio consisted of investment grade securities at September 30, 2016 and December 31, 2015. The quality of our fixed maturity portfolio remains strong based on ratings, capital structure position, support through guarantees, underlying security, issuer diversification and yield curve position.

Our fixed maturity and equity securities are classified as available-for-sale and are carried at fair value. Financial instruments whose value was determined using significant management judgment or estimation constituted less than 1% of the total assets we measured at fair value. (See also Note 6 – “Fair Value” in the Notes to Interim Consolidated Financial Statements).

Equity securities primarily consist of income-oriented large capitalization common stocks and U.S. market equity index exchange traded funds.

Other investments consisted of participations in commercial mortgage loan obligations, investments in limited partnerships and overseas deposits. Commercial mortgage loan participations represent our interest in commercial mortgage loans originated by a third party. We share, on a pro-rata basis, in all related cash flows of the underlying mortgage loans, which are investment-grade quality and diversified by geographic area and property type. Overseas deposits are foreign and U.S. dollar-denominated investments maintained in overseas funds and managed exclusively by Lloyd’s. These funds are required in order to protect policyholders in overseas markets and enable Chaucer to operate in those markets. Access to those funds is restricted, and we have no control over the investment strategy.

Although we expect to invest new funds primarily in investment grade fixed maturities, we have invested, and expect to continue to invest, a portion of funds in common equity securities, below investment grade fixed maturities and other investment assets.

Other-than-Temporary Impairments

For the three and nine months ended September 30, 2016, we recognized in earnings \$0.1 million and \$26.0 million, respectively, of other-than-temporary impairments (“OTTI”), primarily on fixed maturities. For the nine months ended September 30, 2016, OTTI on fixed maturities was \$23.0 million, primarily in the energy sector, and was comprised of \$15.6 million of bonds that we intended to sell and \$7.4 million related to estimated credit losses. Additionally, we recognized \$2.7 million of OTTI on equity securities. For the three months ended September 30, 2015, we recognized in earnings \$4.2 million of OTTI on fixed maturities and for the nine months ended September 30, 2015, we recognized in earnings \$8.8 million of OTTI on fixed maturities and equity securities, largely in the energy sector.

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Unrealized Losses

The following table provides information about our fixed maturities and equity securities that were in an unrealized loss position including the length of time the securities have been in an unrealized loss position. (See also Note 5 – “Investments” in the Notes to Interim Consolidated Financial Statements.)

(in millions)	September 30, 2016		December 31, 2015	
	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value
Fixed maturities:				
Investment grade:				
12 months or less	\$ 2.3	\$ 485.5	\$ 43.3	\$ 2,168.8
Greater than 12 months	6.2	142.1	25.5	323.4
Total investment grade fixed maturities	8.5	627.6	68.8	2,492.2
Below investment grade:				
12 months or less	0.9	30.1	19.6	165.5
Greater than 12 months	13.2	105.2	26.5	63.2
Total below investment grade fixed maturities	14.1	135.3	46.1	228.7
Equity securities:				
12 months or less	0.9	18.7	7.6	166.8
Total	\$ 23.5	\$ 781.6	\$ 122.5	\$ 2,887.7

Gross unrealized losses at September 30, 2016 decreased \$99.0 million compared to December 31, 2015, primarily attributable to lower prevailing interest rates, and to a lesser extent, narrower credit spreads. Interest rates declined, especially for U.S. Treasury securities and other high quality assets, reflecting low to moderate global growth, benign inflation expectations, highly accommodative policies from the European Central Bank, Bank of Japan and Bank of England, and generally robust demand for fixed income. At September 30, 2016, gross unrealized losses primarily consisted of \$19.7 million on corporate fixed maturities.

Market values of securities in the energy sector have recovered from their multi-year lows but may continue to experience volatility until underlying supply and demand dynamics normalize. The amortized cost and market values of our total energy holdings at September 30, 2016 were \$420.4 million and \$437.7 million, respectively, or 5.0% of our total cash and investments. Within our energy holdings, certain subsectors will benefit from lower crude oil prices while others will be negatively impacted. Our holdings in subsectors which may be negatively impacted from lower prices, such as independents and oil field services, total 1.5% of total cash and investments. The majority of these holdings are investment grade; however, certain issuers and investments may come under duress.

We view gross unrealized losses on fixed maturities and equity securities as temporary since it is our assessment that these securities will recover in the near term, allowing us to realize their anticipated long-term economic value. With respect to gross unrealized losses on fixed maturities, we do not intend to sell, nor is it more likely than not we will be

required to sell, such debt securities before this expected recovery of amortized cost (See also “Liquidity and Capital Resources” in Management’s Discussion and Analysis of Financial Condition and Results of Operations of this Form 10-Q). With respect to equity securities, we have the intent and ability to retain such investments for the period of time anticipated to allow for this expected recovery in fair value. Inherent in our assessment are the risks that, subsequent to the balance sheet date, market factors may differ from our expectations; the global economic recovery is less robust than we expect or reverts to recessionary trends; stress in the commodities sectors, including oil and gas and metals and mining, may persist for an extended period of time; we may decide to subsequently sell a security for unforeseen business needs; or changes in the credit assessment or equity characteristics from our original assessment may lead us to determine that a sale at the current value would maximize recovery on such investments. To the extent that there are such adverse changes, an OTTI would be recognized as a realized loss. Although unrealized losses are not reflected in the results of financial operations until they are realized or deemed “other-than-temporary,” the fair value of the underlying investment, which does reflect the unrealized loss, is reflected in our Consolidated Balance Sheets.

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The following table sets forth gross unrealized losses for fixed maturities by maturity period and for equity securities at September 30, 2016 and December 31, 2015. Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations, with or without call or prepayment penalties, or we may have the right to put or sell the obligations back to the issuers.

(in millions)	September 30, 2016	December 31, 2015
Due in one year or less	\$ 0.1	\$ 1.5
Due after one year through five years	4.6	26.5
Due after five years through ten years	9.3	66.1
Due after ten years	6.9	10.8
	20.9	104.9
Mortgage-backed and asset-backed securities	1.7	10.0
Total fixed maturities	22.6	114.9
Equity securities	0.9	7.6
Total fixed maturities and equity securities	\$ 23.5	\$ 122.5

The carrying values of fixed maturity securities on non-accrual status at September 30, 2016 and December 31, 2015 were not material. The effects of non-accruals, compared with amounts that would have been recognized in accordance with the original terms of the fixed maturities, were reductions in net investment income of \$1.0 million and \$0.6 million for the nine months ended September 30, 2016 and 2015, respectively. Any defaults in the fixed maturities portfolio in future periods may negatively affect investment income.

Our investment portfolio and shareholders' equity can be significantly impacted by changes in the market values of our securities. Market volatility could increase and defaults on fixed income securities could occur. As a result, we could incur additional realized and unrealized losses in future periods, which could have a material adverse impact on our results of operations and/or financial position.

Monetary policies in the developed economies, particularly in the United States, Europe and Japan, are supportive of moderate economic growth, while fiscal policies are more divergent and subject to change. Major central banks continue to closely monitor developments in global financial markets and the outlook for growth and are committed to adjust monetary policy as required to provide liquidity funding and support growth, achieve inflation targets and minimize volatility. In the United States, the Federal Reserve (the "Fed") maintains its target for the federal funds rate at 0.25% to 0.50%. The Fed has communicated that the timing of interest rate increases will depend on progress toward its goals of maximum employment and 2 percent inflation, which are expected over the medium term as economic activity expands at a moderate pace and labor market conditions strengthen. While the Fed believes near-term risks to the economic outlook appear roughly balanced, geopolitical risks and equity market volatility can also impact the movement of U.S. Treasury interest rates.

While the United States has reduced its extraordinary measures as the economy continues to grow at a moderate pace with low inflation, central banks in Europe and Asia have increased accommodative monetary policies as they seek higher growth and confront inflation and inflation expectations running below target. The removal, modification or suggestion of changes in these policies could have an adverse effect on prevailing market interest rates and on issuers'

level of business activity or liquidity, increasing the probability of future defaults. Fundamental conditions in the corporate sector generally remain sound with the exception of the energy and metals and mining industries. Although commodity prices have recovered somewhat from their multi-year lows, fundamentals in these two sectors are expected to remain under pressure until underlying supply and demand dynamics normalize. While we may experience defaults on fixed income securities, particularly with respect to non-investment grade debt securities, it is difficult to foresee which issuers, industries or markets, other than those previously cited, will be affected. As a result, the value of our fixed maturity portfolio could change rapidly in ways we cannot currently anticipate, and we could incur additional realized and unrealized losses in future periods.

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Other Items

Net income also included the following items:

(in millions)	Three Months Ended September 30,					Total
	Commercial Lines	Personal Lines	Chaucer	Other	Discontinued Operations	
2016						
Net realized investment gains (losses)	2.2	1.0	1.0	-	-	4.2
Other non-operating items	2.5	-	-	-	-	2.5
Discontinued operations, net of taxes	-	-	-	-	0.1	0.1
2015						
Net realized investment gains (losses)	\$ 5.8	\$ 2.7	\$ (0.6)	\$ 0.1	\$ -	\$ 8.0
Net loss from repayment of debt	-	-	-	(5.6)	-	(5.6)
Other non-operating items	-	-	0.2	-	-	0.2
Discontinued operations, net of taxes	-	-	-	-	1.1	1.1

(in millions)	Nine Months Ended September 30,					Total
	Commercial Lines	Personal Lines	Chaucer	Other	Discontinued Operations	
2016						
Gain on disposal of U.K. motor business, net of tax	\$ -	\$ -	\$ 0.9	\$ -	\$ -	\$ 0.9
Net realized investment gains (losses)	4.8	2.1	(0.3)	(1.6)	-	5.0
Net loss from repayment of debt	-	-	-	(86.1)	-	(86.1)
Other non-operating items	2.5	-	0.3	-	-	2.8
Discontinued operations, net of taxes	-	-	-	-	0.3	0.3
2015						
Gain on disposal of U.K. motor business, net of tax	\$ -	\$ -	\$ 40.3	\$ -	\$ -	\$ 40.3
Net realized investment gains	20.0	9.0	0.6	0.4	-	30.0
Net loss from repayment of debt	-	-	-	(24.1)	-	(24.1)
Other non-operating items	(0.2)	(0.1)	0.1	-	-	(0.2)
Discontinued operations, net of taxes	-	-	-	-	0.9	0.9

We manage investment assets for our Commercial Lines, Personal Lines, and Other segments based on the requirements of our U.S. combined property and casualty companies. We allocate the investment income, expenses and realized gains and losses to our Commercial Lines, Personal Lines and Other segments based on actuarial information related to the underlying businesses. We manage investment assets separately for our Chaucer segment.

Net realized gains on investments were \$4.2 million for the three months ended September 30, 2016 compared to \$8.0 million for the three months ended September 30, 2015. Net realized gains in 2016 were primarily due to \$3.5 million of net gains recognized from the sale of securities, primarily fixed maturities, as well as \$0.8 million in net gains from other investments, primarily partnerships. Net realized gains in 2015 were due to \$6.3 million of gains from other investments, primarily partnerships, and \$5.9 million of gains recognized from the sale of securities, principally equities, partially offset by \$4.2 million of OTTI losses.

Net realized gains on investments were \$5.0 million for the nine months ended September 30, 2016 compared to \$30.0 million for the nine months ended September 30, 2015. Net realized gains in 2016 were primarily due to \$30.8 million of net gains recognized from the sale of securities, primarily equities, partially offset by \$26.0 million of OTTI losses. Net realized gains in 2015 were due to \$32.3 million of gains recognized from the sale of securities, principally equities, and \$6.5 million of gains from other investments, primarily partnerships, partially offset by \$8.8 million of OTTI losses.

Additionally, during the second quarter of 2016, we redeemed senior debentures with a carrying value of \$375.2 million at a cost of \$461.3 million, resulting in a loss of \$86.1 million. During the first nine months of 2015, we repaid senior debentures with a carrying value of \$90.2 million at a cost of \$114.3 million, resulting in a loss of \$24.1 million; \$5.6 million of this loss was recognized in the third quarter.

Effective June 30, 2015, we transferred our U.K. motor business to an unaffiliated U.K.-based insurance provider, which resulted in the recognition of a \$40.3 million gain, net of tax, during the second quarter of 2015.

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Income Taxes

We are subject to the tax laws and regulations of the U.S. and foreign countries in which we operate. We file a consolidated U.S. federal income tax return that includes the holding company and its U.S. subsidiaries. Generally, taxes are accrued at the U.S. statutory tax rate of 35% for income from the U.S. operations. Our primary non-U.S. jurisdiction is the U.K. In July 2013, the U.K. statutory rate decreased from 23% to 21% effective April 1, 2014 and from 21% to 20% effective April 1, 2015. In November 2015, the U.K. statutory tax rate decreased from 20% to 19% effective April 1, 2017 and from 19% to 18% effective April 1, 2020. Further decreases were enacted in September 2016 to reduce the U.K. statutory rate from 19% to 17%, instead of the 18%, effective April 1, 2020. We accrue taxes on certain non-U.S. income that is subject to U.S. tax at the U.S. tax rate. Foreign tax credits, where available, are utilized to offset U.S. tax as permitted. Certain of our non-U.S. income is not subject to U.S. tax until repatriated. Foreign taxes on this non-U.S. income are accrued at the local foreign rate and do not have an accrual for U.S. deferred taxes since these earnings are intended to be indefinitely reinvested overseas.

Three Months Ended September 30, 2016 Compared to Three Months Ended September 30, 2015

The provision for income taxes from continuing operations was an expense of \$35.8 million in the three months ended September 30, 2016, compared to an expense of \$33.2 million during the same period in 2015. These provisions resulted in consolidated effective federal tax rates of 28.8% and 30.1% for the three months ended September 30, 2016 and 2015, respectively. These provisions reflect benefits related to tax planning strategies implemented in prior years of \$5.1 million and \$3.4 million during the three months ended September 30, 2016 and 2015, respectively. Absent these items, the provision for income taxes would have been an expense of \$40.9 million or 33.0% and \$36.6 million or 33.2% for the three months ended September 30, 2016 and 2015, respectively.

The income tax provision on operating income was an expense of \$38.7 million during the three months ended September 30, 2016, compared to \$35.6 million during the same period in 2015. These provisions resulted in consistent effective tax rates for operating income of 33.0% in both 2016 and 2015.

Nine Months Ended September 30, 2016 Compared to Nine Months Ended September 30, 2015

The provision for income taxes from continuing operations was an expense of \$56.8 million in the nine months ended September 30, 2016, compared to an expense of \$87.0 million during the same period in 2015. These provisions resulted in consolidated effective federal tax rates of 25.2% and 25.6% for the nine months ended September 30, 2016 and 2015, respectively. The 2016 provision reflects a tax benefit of \$30.1 million on the loss from repayment of borrowings as a discrete tax adjustment calculated at the statutory rate for the nine months ended September 30, 2016. In addition, these provisions reflect benefits related to tax planning strategies implemented in prior years of \$14.0 million and \$9.4 million during the nine months ended September 30, 2016 and 2015, respectively, and a \$2.6 million benefit on the gain on disposal of the U.K. motor business for the nine months ended September 30, 2015. Absent these items, the provision for income taxes would have been \$100.9 million or 32.4% and \$99.0 million or 32.7% for the nine months ended September 30, 2016 and 2015, respectively.

The income tax provision on operating income was an expense of \$98.0 million during the nine months ended September 30, 2016, compared to \$96.9 million during the same period in 2015. These provisions resulted in relatively consistent effective tax rates for operating income of 32.4% and 32.7% in 2016 and 2015, respectively.

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Critical Accounting Estimates

Interim consolidated financial statements have been prepared in conformity with U.S. GAAP and include certain accounting policies that we consider to be critical due to the amount of judgment and uncertainty inherent in the application of those policies. While we believe that the amounts included in our consolidated financial statements reflect our best judgment, the use of different assumptions could produce materially different accounting estimates. As disclosed in our Annual Report on Form 10-K for the year ended December 31, 2015, we believe the following accounting estimates are critical to our operations and require the most subjective and complex judgment:

- Reserve for losses and loss expenses
- Reinsurance recoverable balances
- Pension benefit obligations
- Other-than-temporary impairments
- Deferred tax assets

For a more detailed discussion of these critical accounting estimates, see our Annual Report on Form 10-K for the year ended December 31, 2015.

Statutory Surplus of U.S. Insurance Subsidiaries

The following table reflects statutory surplus for our U.S. insurance subsidiaries:

	September	December
	30,	31,
(in millions)	2016	2015
Total Statutory Capital and Surplus—U.S. Insurance Subsidiaries	\$ 2,218.5	\$ 2,192.8

The statutory capital and surplus for our U.S. insurance subsidiaries increased \$25.7 million during the first nine months of 2016. This increase was due to operating results and an increase in unrealized gains on investments, partially offset by a \$218.8 million dividend paid by Hanover Insurance to THG.

The NAIC prescribes an annual calculation regarding risk based capital (“RBC”). RBC ratios for regulatory purposes are expressed as a percentage of the capital required to be above the Authorized Control Level (the “Regulatory Scale”); however, in the insurance industry, RBC ratios are widely expressed as a percentage of the Company Action Level. The following table reflects the Company Action Level, the Authorized Control Level and RBC ratios for Hanover Insurance (which includes Citizens and other U.S. insurance subsidiaries), as of September 30, 2016, expressed both on the Industry Scale (Total Adjusted Capital divided by the Company Action Level) and Regulatory Scale (Total Adjusted Capital divided by Authorized Control Level):

(dollars in millions)	Company Action Level	Authorized Control Level	RBC Ratio Industry Scale	RBC Ratio Regulatory Scale
The Hanover Insurance Company	\$ 772.7	\$ 386.3	286%	572%

Lloyd's Capital Requirement

Chaucer corporate members operate in the Lloyd's market, which requires that these members deposit funds, referred to as "Funds at Lloyd's", to support their underwriting interests. Lloyd's sets required capital annually for all participating syndicates based on each syndicate's business plans, the rating and reserving environment, and discussions with regulatory and rating agencies. Although the minimum capital levels are set by Lloyd's, it is the responsibility of Chaucer to continually monitor the risk profiles of its managed syndicates to ensure that the level of funding remains appropriate. Such capital is comprised of investments, undrawn letters of credit provided by various banks, and cash and cash equivalents.

We have the following securities, letters of credit and cash and cash equivalents pledged to Lloyd's to satisfy these capital requirements at September 30, 2016. At September 30, 2016, we are in compliance with the capital requirements and expect to be able to meet these capital requirements in the future.

(in millions)	
Fixed maturities, at fair value	\$ 507.1
Letters of credit	220.7

Cash and cash equivalents	4.0
Total pledged to Lloyd's	\$ 731.8

Liquidity and Capital Resources

Liquidity is a measure of our ability to generate sufficient cash flows to meet the cash requirements of business operations. As a holding company, our primary ongoing source of cash is dividends from our insurance subsidiaries. However, dividend payments to us by our U.S. insurance subsidiaries are subject to limitations imposed by regulators, such as prior notice periods and the requirement that dividends in excess of a specified percentage of statutory surplus or prior year's statutory earnings receive prior approval (so called "extraordinary dividends"). Dividends of \$218.8 million were paid to the holding company by Hanover Insurance during the first nine months of 2016.

Dividend payments to the holding company by Chaucer are regulated by U.K. law. Dividends from Chaucer are dependent on dividends from its subsidiaries. Annual dividend payments from Chaucer are limited to retained earnings that are not restricted by capital and other requirements for business at Lloyd's. Also, Chaucer must provide advance notice to the U.K.'s Prudential Regulation Authority ("PRA"), of certain proposed dividends or other payments from PRA regulated entities. Dividends of \$64.5 million were paid to the holding company by Chaucer during the first nine months of 2016.

In connection with an intercompany borrowing arrangement between Chaucer and the holding company, interest on a \$300 million note is paid by Chaucer on a quarterly basis to the holding company. This interest may be deferred at the election of the holding company. If deferred, the interest is added to the principal. For each of the nine month periods ended September 30, 2016 and 2015, Chaucer paid \$16.8 million of interest to the holding company.

At September 30, 2016, THG, as a holding company, held \$153.7 million of fixed maturities and cash. We believe our holding company assets will be sufficient to meet our current year obligations, which consist primarily of dividends to our shareholders (as and to the extent declared), the interest on our senior and subordinated debentures, certain costs associated with benefits due to our former life employees and agents, and, to the extent required, payments related to indemnification of liabilities associated with the sale of various subsidiaries.

Sources of cash for our insurance subsidiaries primarily consist of premiums collected, investment income and maturing investments. Primary cash outflows are paid claims, losses and loss adjustment expenses, policy and contract acquisition expenses, other underwriting expenses and investment purchases. Cash outflows related to losses and loss adjustment expenses can be variable because of uncertainties surrounding settlement dates for liabilities for unpaid losses and because of the potential for large losses either individually or in the aggregate. We periodically adjust our investment policy to respond to changes in short-term and long-term cash requirements.

Net cash provided by operating activities was \$558.1 million during the first nine months of 2016, as compared to \$354.4 million during the first nine months of 2015. The \$203.7 million increase in cash provided was primarily the result of lower loss payments during the first nine months of 2016.

Net cash used in investing activities was \$319.0 million during the first nine months of 2016, as compared to \$111.8 million during the first nine months of 2015. During 2016, cash used in investing activities primarily related to net purchases of fixed maturities, equity securities and other investments. During 2015, cash used in investing activities primarily related to net purchases of fixed maturities, equity securities and other investments, partially offset by net cash received from the disposal of the U.K. motor business.

Net cash used in financing activities was \$259.8 million during the first nine months of 2016, as compared to \$229.2 million during the first nine months of 2015. During 2016, cash used in financing activities primarily resulted from the repayment of debt, repurchases of common stock and payment of dividends to shareholders. These cash outflows were partially offset by cash inflows related to the issuance, on April 8, 2016, of \$375.0 million of senior unsecured debentures, and option exercises. During 2015, cash used in financing activities primarily resulted from the repayment of debt, repurchases of common stock and payment of dividends to shareholders. These cash outflows were partially offset by cash inflows related to option exercises and the security lending program.

Dividends to shareholders are subject to quarterly board approval and declaration. During the first nine months of 2016, as declared by the Board, we paid three quarterly dividends, each for \$0.46 per share to our shareholders totaling \$59.2 million. We believe that our holding company assets are sufficient to provide for future shareholder dividends should the Board of Directors declare them.

Our insurance subsidiaries maintain a high degree of liquidity within their respective investment portfolios in fixed maturity and short-term investments. We believe that the quality of the assets we hold will allow us to realize the long-term economic value of our portfolio, including securities that are currently in an unrealized loss position. We do not anticipate the need to sell these securities to meet our insurance subsidiaries' cash requirements since we expect our insurance subsidiaries to generate sufficient operating cash to meet all short-term and long-term cash requirements relating to current operations. However, there can be no assurance that unforeseen business needs or other items will not occur causing us to have to sell those securities in a loss position before their values fully recover, thereby causing us to recognize impairment charges in that time period.

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Our Board of Directors has authorized aggregate repurchases of our common stock of up to \$900 million. Under the repurchase authorizations, the Company may repurchase, from time to time, common shares in amounts, at prices and at such times as the Company deems appropriate, subject to market conditions and other considerations. Repurchases may be executed using open market purchases, privately negotiated transactions, accelerated repurchase programs or other transactions. We are not required to purchase any specific number of shares or to make purchases by any certain date under this program. During the first nine months of 2016, we repurchased approximately 1.3 million shares of our common stock at a cost of \$105.2 million. As of September 30, 2016, we have approximately \$184 million available for repurchases under these repurchase authorizations.

On April 8, 2016 we issued \$375.0 million aggregate principal amount of 4.50% senior unsecured debentures due April 15, 2026. Net proceeds of the debt issuance were \$370.5 million. The net proceeds were used, together with cash on hand, to redeem outstanding 7.50% notes due March 1, 2020 and 6.375% notes due June 15, 2021, resulting in a pre-tax loss of \$86.1 million, related primarily to the required “make-whole” provision in these issuances.

We have a \$200.0 million credit agreement which expires in November 2018, with an option to increase the facility to \$300.0 million assuming no default and satisfaction of certain other conditions. The agreement also includes a \$50 million sub-facility for standby letters of credit that can be used for general corporate purposes. The agreement contains financial covenants including, but not limited to, maintaining at least a certain level of consolidated equity, maximum consolidated leverage ratios and requires certain of our subsidiaries to maintain a minimum RBC ratio. We had no borrowings under this agreement during the first nine months of 2016.

Membership in FHLBB provides us with access to additional liquidity based on our stock holdings and pledged collateral at the date of borrowing. At September 30, 2016, we had additional borrowing capacity of \$34.2 million. There were no borrowings outstanding under this short-term facility at September 30, 2016; however, we have and may continue, from time to time, to borrow through this facility to provide short term liquidity.

On October 15, 2015, we entered into a Standby Letter of Credit Facility Agreement (the “Facility Agreement”) not to exceed £170.0 million (or \$220.7 million) outstanding at any one time, with the option to increase the amount available for issuances of letters of credit to £235.0 million (or \$305.1 million) in the aggregate on one occasion only during the term of the Facility Agreement (subject to the consent of all lenders and assuming no default and satisfaction of other specified conditions). The Facility Agreement provides certain covenants including, but not limited to, the syndicates’ financial condition. The Facility Agreement provides regulatory capital supporting Chaucer’s underwriting activities for the 2016 and 2017 years of account and each prior open year of account. The Facility Agreement is generally renewed biennially to support new underwriting years.

The Facility agreement is subject to a letter of credit commission fee on outstanding letters of credit, which is payable quarterly. Chaucer is also required to pay customary agency fees. We paid \$2.9 million and \$2.7 million in interest costs during the first nine months of 2016 and 2015, respectively.

Simultaneous with the Facility Agreement, we entered into a Guaranty Agreement (the “Guaranty Agreement”) with Lloyds Bank plc, as Facility Agent and Security Agent, pursuant to which we unconditionally guarantee the obligations of Chaucer under the Facility Agreement. The Guaranty Agreement contains certain financial covenants that require us to maintain a minimum net worth, a minimum risk-based capital ratio at our primary U.S. domiciled property and casualty companies and a maximum leverage ratio, and certain negative covenants that limit our ability, among other things, to incur or assume certain debt, grant liens on our property, merge or consolidate, dispose of assets, materially change the nature or conduct of our business and make restricted payments (except, in each case, as provided by certain exceptions). The Guaranty Agreement also contains certain customary representations and warranties.

For a more detailed discussion of our credit agreements, see also “Liquidity and Capital Resources” in Management’s Discussion and Analysis of Financial Condition and Results of Operations in our Annual Report on Form 10-K for the year ended December 31, 2015.

At September 30, 2016, we were in compliance with the covenants of our debt and credit agreements.

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Off-Balance Sheet Arrangements

We currently do not have any material off-balance sheet arrangements that are reasonably likely to have an effect on our financial position, revenues, expenses, results of operations, liquidity, capital expenditures, or capital resources.

Contingencies and Regulatory Matters

Information regarding contingencies and regulatory matters appears in Part I – Note 12 “Commitments and Contingencies” in the Notes to Interim Consolidated Financial Statements.

Risks and Forward-Looking Statements

Information regarding risk factors and forward-looking information appears in Part II – Item 1A of this Quarterly Report on Form 10-Q and in Part I – Item 1A of our Annual Report on Form 10-K for the fiscal year ended December 31, 2015. This Management’s Discussion and Analysis should be read and interpreted in light of such factors.

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ITEM 3

QUANTITATIVE AND QUALITATIVE DISCLOSURES

ABOUT MARKET RISK

Our market risks, the ways we manage them, and sensitivity to changes in interest rates, equity price risk, and foreign currency exchange risk are summarized in Management's Discussion and Analysis of Financial Condition and Results of Operations as of December 31, 2015, included in our Annual Report on Form 10-K for the year ended December 31, 2015. There have been no material changes in the first nine months of 2016 to these risks or our management of them.

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ITEM 4

CONTROLS AND PROCEDURES

Disclosure Controls and Procedures Evaluation

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we conducted an evaluation of our disclosure controls and procedures, as such term is defined under Rule 13a-15(e) promulgated under the Securities Exchange Act of 1934, as amended (the “Exchange Act”).

Limitations on the Effectiveness of Controls

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls over financial reporting will prevent all error and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system’s objectives will be met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple error or mistake. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures. Because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

Conclusion Regarding the Effectiveness of Disclosure Controls and Procedures

Based on our controls evaluation, our Chief Executive Officer and Chief Financial Officer concluded that as of the end of the period covered by this quarterly report, our disclosure controls and procedures were effective to provide reasonable assurance that (i) the information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported within the time periods specified in the SEC’s rules and forms and (ii) material information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Exchange Act Rule 13a-15(f). Under the supervision and with the participation of our management, including our Chief Executive Officer and the Chief Financial Officer, we conducted an evaluation of the internal control over financial reporting, as required by Rule 13a-15(d) of the Exchange Act, to determine whether any changes occurred during the period covered by this quarterly report on Form 10-Q that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting. Based on that evaluation, the Chief Executive Officer and Chief Financial Officer concluded that there were no such changes during the quarter ended September 30, 2016, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

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PART II – OTHER INFORMATION

ITEM 1 – LEGAL PROCEEDINGS

Reference is made to the litigation matter captioned “Durand Litigation” under “Commitments and Contingencies – Legal Proceedings” in Note 12 in the Notes to Interim Consolidated Financial Statements.

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ITEM 1A – RISK FACTORS

This document contains, and management may make, certain “forward-looking statements” within the meaning of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical facts, may be forward-looking statements. When used in our Management’s Discussion and Analysis, the words: “believes”, “anticipates”, “expects”, “projections”, “outlook”, “should”, “could”, “plan”, “guidance”, “likely”, “on track to”, “targeted” and expressions are intended to identify forward-looking statements. We wish to caution readers that accuracy with respect to forward-looking projections is difficult and risks and uncertainties, in some cases, have affected, and in the future could affect, our actual results and could cause our actual results for the remainder of 2016 and beyond to differ materially from historical results and from those expressed in any of our forward-looking statements. We operate in a business environment that is continually changing, and as such, new risk factors may emerge over time. Additionally, our business is conducted in competitive markets and therefore involves a higher degree of risk. We cannot predict these new risk factors nor can we assess the impact, if any, that they may have on our business in the future. Some of the factors that could cause actual results to differ include, but are not limited to, the following:

- changes in the demand for our products;
- risks and uncertainties with respect to our ability to retain profitable policies in force and attract profitable policies and to increase rates commensurate with, or in excess of, loss trends;
- changes in our estimates of loss and loss adjustment expense reserves and accident year “picks”, including with respect to the annual actuarial reserving review in the fourth quarter of 2016, which may result in lower current year underwriting income or adverse loss development, and could impact our carried reserves;
- uncertainties with respect to the long-term profitability of our products, including with respect to new products such as our Platinum Personal Lines, excess and surplus lines, trade credit coverage, or longer-tail products covering casualty losses;
- changes in frequency and loss severity trends;
- changes in regulation, economic, market and political conditions, particularly with respect to regions where we have geographical concentrations or with respect to Lloyd’s;
- the effect of the Brexit Referendum and related consequences on (i) Chaucer’s licensing permissions in European Union member states if Lloyd’s does not obtain alternative licensing permissions; (ii) market conditions in the U.K. and the European market; and (iii) foreign exchange volatility;
- volatile and unpredictable developments, including severe weather and other natural physical events, catastrophes and terrorist actions;
- changes in weather patterns, whether as a result of global climate change, or otherwise, causing a higher level of losses from weather events to persist;
- the availability of sufficient information to accurately estimate a loss at a point in time;

- risks and uncertainties with respect to our ability to collect all amounts due from reinsurers and to maintain current levels of reinsurance in the future at commercially reasonable rates, or at all;
- heightened volatility, fluctuations in interest rates (which have a significant impact on the market value of our investment portfolio and thus our book value), inflationary pressures, default rates and other factors that affect investment returns from our investment portfolio;
- fluctuations in currencies which affect the values of financial information converted from an originating currency to our reporting currency;
- risks and uncertainties associated with our participation in shared market mechanisms, mandatory reinsurance programs and mandatory and voluntary pooling arrangements;
- an increase in mandatory assessments by state guaranty funds or by Lloyd's Central Fund;
- actions by our competitors, many of which are larger or have greater financial resources than we do;
- potential disruptions associated with or during the transition to a new CEO and CFO;
- loss or retirement of key employees;
- operating difficulties and other unintended consequences from acquisitions and integration of acquired businesses, the introduction of new products and related technology changes and new operating models;
- changes in our claims-paying and financial strength ratings;
- negative changes in our level of statutory surplus;
- risks and uncertainties with respect to our growth strategies;
- our ability to declare and pay dividends;
- changes in accounting principles and related financial reporting requirements;
- errors or omissions in connection with the administration of any of our products;
- risks and uncertainties with technology, data security and/or outsourcing relationships that may negatively impact our ability to conduct business;
- an inability to be compliant with recently implemented regulations such as Solvency II or existing regulation such as those relating to sanctions and Sarbanes-Oxley;
- unfavorable judicial or legislative developments; and
- other factors described in such forward-looking statements.

In addition, historical and future reported financial results include estimates with respect to premiums written and earned, reinsurance recoverables, current accident year "picks", loss and loss adjustment reserves and development, fair values of certain investments, other assets and liabilities, tax, contingent and other liabilities, and other items. These estimates are subject to change as more information becomes available.

For a more detailed discussion of our risks and uncertainties, see also Item 1A – Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2015.

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ITEM 2 – UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS

Issuer Purchases of Equity Securities

Shares purchased in the third quarter of 2016 are as follows:

Period	Total Number of Shares Purchased	Average Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Approximate Dollar Value of Shares That May Yet be Purchased Under the Plans or Programs (in millions) (1)
July 1 - 31, 2016	215,313	\$ 83.40	215,313	\$ 204
August 1 - 31, 2016 (2)	205,543	79.37	205,371	188
September 1 - 30, 2016	44,611	77.56	44,611	184
Total	465,467	\$ 81.06	465,295	\$ 184

(1) Since the announcement of our share repurchase program on October 29, 2007, the Board has authorized us to repurchase up to \$900 million in shares of our common stock using open market purchases, privately negotiated transactions, accelerated repurchase programs or other transactions.

(2) Includes 172 shares withheld to satisfy tax withholding amounts due from employees related to the receipt of stock that resulted from the exercise or vesting of equity awards.

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ITEM 6 – EXHIBITS

- EX – Offer Letter dated September 21, 2016 between Jeffrey M. Farber and the Registrant, previously filed as
10.1+ Exhibit 10.1 to the Registrant’s Current Report on Form 8-K filed with the Commission on September 23, 2016 and incorporated herein by reference.
- EX – Form of Non-Qualified Stock Option Agreement under The Hanover Insurance Group 2014 Long-Term
10.2+ Incentive Plan for Chief Financial Officer.
- EX – Form of Performance-Based Restricted Stock Unit Agreement under The Hanover Insurance Group 2014
10.3+ Long-Term Incentive Plan for Chief Financial Officer.
- EX – The Hanover Insurance Group Cash Balance Pension Plan, as amended.
10.4+
- EX – Certification of the Chief Executive Officer, pursuant to 15 U.S.C. 78m, 78o(d), as adopted pursuant to section
31.1 302 of the Sarbanes-Oxley Act of 2002.
- EX – Certification of the Chief Financial Officer, pursuant to 15 U.S.C. 78m, 78o(d), as adopted pursuant to section
31.2 302 of the Sarbanes-Oxley Act of 2002.
- EX – Certification of the Chief Executive Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to
32.1 section 906 of the Sarbanes-Oxley Act of 2002.
- EX – Certification of the Chief Financial Officer, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section
32.2 906 of the Sarbanes-Oxley Act of 2002.
- EX – The following materials from The Hanover Insurance Group, Inc.’s Quarterly Report on Form 10-Q for the
101 quarter ended September 30, 2016 formatted in eXtensible Business Reporting Language (“XBRL”): (i) Consolidated Statements of Income for the three and nine months ended September 30, 2016 and 2015; (ii) Consolidated Statements of Comprehensive Income for the three and nine months ended September 30, 2016 and 2015; (iii) Consolidated Balance Sheets at September 30, 2016 and December 31, 2015; (iv) Consolidated Statements of Shareholders’ Equity for the nine months ended September 30, 2016 and 2015; (v) Consolidated Statements of Cash Flows for the nine months ended September 30, 2016 and 2015, and (vi) related notes to these financial statements.

+ Management contract or compensatory plan or arrangement.

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SIGNATURES

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

The Hanover Insurance Group, Inc.
Registrant

November 4, 2016 /s/ Joseph M. Zubretsky

Date Joseph M. Zubretsky
President, Chief Executive Officer
and Director

November 4, 2016 /s/ Eugene M. Bullis

Date Eugene M. Bullis
Executive Vice President and
Interim Chief Financial Officer