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

FORM 10-Q

(Mark One)

Х

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934 For the quarterly period ended March 31, 2017

OR

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

Commission File Number 1-11848

REINSURANCE GROUP OF AMERICA, INCORPORATED

(Exact name of Registrant as specified in its charter)

MISSOURI

(State or other jurisdiction of incorporation or organization)

16600 Swingley Ridge Road Chesterfield, Missouri 63017 (Address of principal executive offices) (636) 736-7000 (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 x No o

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 x No o

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

Large accelerated filer x Accelerated filer o Non-accelerated filer o Smaller reporting company o Emerging growth company o

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act. o

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

As of April 30, 2017, 64,392,144 shares of the registrant's common stock were outstanding.

43-1627032 (IRS employer

identification number)

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES

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PART I - FINANCIAL INFORMATION

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES CONDENSED CONSOLIDATED BALANCE SHEETS (Unaudited)

Interm Interm Read matrix 3 3.2034.73 \$ 3.2034.73		March 31, 2017	Γ	December 31, 2016
Fixed multiple control with a star where (montrized cost of \$0,540,567 and \$0,021,1787)\$ <th></th> <th> (Dollars in thousand</th> <th>ls, except</th> <th>share data)</th>		 (Dollars in thousand	ls, except	share data)
Available-for-sole at fair value (amortized cost of \$30,540,557 and \$30,557,365\$\$\$2,664,793\$\$\$2,664,793\$\$\$2,604,753\$Mortgage lours on roll estate (net of allowances of \$7,706 and \$7,685).1422,600.1422,600.5757,919Noth valuhad it interest.5944,469.5475,919.542,88.5767,919Short-term investments.542,88.542,88.767,100Other investments.1422,601.1422,601.1422,601Other investments.1428,305,595.44441,310.100,101Cash and cash equivalents.1178,114.120,018.1178,114.120,018Cash and cash equivalents.1178,114.120,018.139,056.139,056Permium receivalents and the reinsurance balances.000,25.139,0160.139,0150Reinsurance cedel receivables.000,25.013,0154.330,056.139,0150Other assets.000,25.000,25.000,25.000,25.000,25Total assets.000,25.000,25.000,25.000,25.000,25Total assets.000,25.000,25.000,25.000,25.000,25Other policy charms and benefits.000,25.000,25.000,25.000,25Other policy charms and benefits.000,25.000,65.000,65.000,65Other policy charms and contingent Liabilities (See Nore 8).000,25.000,653.000,653.000,653Cast and soch conceptiester income.000,000,34,45.000,663.000,663.000,663<	Assets			
Matagan loans on real estate (net of allowances of \$7,786 and \$7,685) J. J	Fixed maturity securities:			
Philoy Joans JUL (22) (22) Funds visible at interest 5,943,460 5,875,919 Short-term investments 5,42,88 76,710 Other investments 1,422,172 1,591,940 Total investments 1,429,175 1,591,940 Other invested sases 1,429,175 1,591,940 Cash and cash equivalents 1,178,114 1,200,718 Accured investment income 300,225 3,471,723 Perintims receivables 2,006,409 1,330,540 Other assets 2,006,409 1,330,540 Other assets 80,835 5,330,540 Total assets 9 5,309,7379 Future policy basetifis 9 5,309,7379 Future policy basetifis 9 5,309,7379 Future policy basetifis 9 1,429,319 Other policy claims and basetifis 2,780,619 3,80,	Available-for-sale at fair value (amortized cost of \$30,540,567 and \$30,211,787)	\$ 32,694,793	\$	32,093,625
Interact 1,000,200 1,000,200 Parks withheid at interest 5,943,640 5,875,019 Short-term investments 1,429,175 1,591,940 Other investments 1,429,175 1,591,940 Total investments 1,173,114 1,200,715 Accrued investment income 360,225 347,173 Premiums receivable and other reinsurance balances 2,008,400 1,930,755 Reinsurance ceduct receivables 760,715 6683,972 Deferred policy acquisition costs 3,00,255 8 3,333,805 Other assis 901,054 7,553,308 7 3,333,805 Other assis 901,054 9 5,333,805 7 3,333,803 Other policy clains and benefitis 1,403,919 1,4029,314 1,4029,314 1,4029,314 1,4029,314 Other policy clains and benefitis 1,403,919 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4029,314 1,4	Mortgage loans on real estate (net of allowances of \$7,786 and \$7,685)	3,871,309		3,775,522
30943400 309339 Other investments 5494300 Other investments 1429,175 Total investments 1,178,114 Cab and cach equivalents 1,178,114 Accored investment income 300,275 Reinsurance ceded receivables 2008,409 Other reinsurance balances 2008,409 Other asses 700,715 Other asses 3,300,548 Other asses 3,300,548 Tatal asses 3,300,548 Data Sockboders' Equivalents 8 Tatal asses 8 Duter policy benefits 14,029,019 Interest-sensitive contract liabilities 14,029,019 Other reinsurance balances 3,300,548 Other policy clains and benefits 4,689,192 Other reinsurance balances 3,800,809 Deferred olizy cations and benefits 4,689,192 Collateral finance and securitization notes 2,708,610 Collateral finance and securitization notes 82,536 Other policy clains and benefits 4,600,170 Collateruel finance and securitizatio	Policy loans	1,402,940		1,427,602
Other investments 142,9175 15,91,90 Other investments 142,9175 15,91,90 Total investments 1,78,114 1,200,718 Accured investment income 360,225 342,173 Premiums receivable and other reinsurance balances 2008,409 19,303,753 Reinsurance cedud receivables 760,715 6683,072 Defered policy acquisition costs 3,300,548 3,338,665 Other assets 700,715 6683,072 Total assets 801,854 755,338 Total assets 801,854 755,338 Total assets \$ 93,305,602 \$ 53,306,762 Pature policy banefits \$ 91,832,433 \$ 19,581,573 Interessensitive contract liabilities 14,039,919 14,029,514 Other reinsurance balances 2,863,744 2,770,640 Other reinsurance balances 2,863,744 2,770,640 Other liabilities 99,6284 140,039,19 Collateral finance and securitization notes 2,5526 46,00,007 Commiuments and coutingent liabilities (See Note 8) 2,5526	Funds withheld at interest	5,943,450		5,875,919
Total investments 1.442.017 1.442.017 Cash and cash equivalents 1.178.114 1.200.718 Accured investment income 3.60.225 3.47.173 Permitums receivable and othe reinstrance balances 2.008.409 1.930.753 Reinstrance coded receivables 7.06.715 6.683.072 Deferred policy acquisition costs 3.300.548 3.330.605 Other assets 0.01.835 \$ 53.805.202 \$ 53.807.107 Total assets \$ 53.805.802 \$ 53.805.802 \$ 53.807.107 Future policy benefits \$ 1.9.832.483 \$ 1.9.581.573 Interest-sensitive contract liabilities 1.40.29.34 Other policy claims and benefits 4.649.192 4.426.026 2.863.744 2.270.640 Other reinstrance balances 3.900.19 3.88.898 3.086.653 3.086.653 Colleared finities 4.649.192 4.463.020 4.60.04,797 4.60.04,797 Colleared finities 4.60.91.92 4.263.026 8.893.026 3.808.693 3.808.693 3.808.693 3.808.693 3.808.693 3.808.693 3.808.693 3	Short-term investments	54,288		76,710
Cash and cash equivalents 14,04,01,00 Accreed investment income 1,178,11,14 Accreed investment income 360,225 Reinsurance ceder receivable and other reinsurance balances 2,008,409 Deferred policy equipation costs 3,300,548 Other assets 3,300,548 Other assets 801,854 Total assets 801,854 Total assets 801,854 Interest-sensitive contract liabilities 14,039,353 Interest-sensitive contract liabilities 14,039,354 Other policy claims and benefits 14,039,354 Other policy claims and benefits 2,803,744 Other policy claims and benefits 2,803,744 Collateral finance and securitization notes 2,803,744 Collateral finance and securitization notes 2,803,744 Conditional paid-in-capital 2,706,440 Collateral finance and securitization notes 3,800,603 Collateral finance and securitization notes 2,706,440 Conditional paid-in-capital 2,706,440 Conditional paid-in-capital 2,706,440 Conditines 2,808,709 </td <td>Other invested assets</td> <td>1,429,175</td> <td></td> <td>1,591,940</td>	Other invested assets	1,429,175		1,591,940
Accred investment income 110.01.14 110.00.10 Accred investment income 300.255 34.7.173 Premiums receivable and other reinsurance balances 2.008,409 1.930,755 Reinsurance ceded receivables 760,715 6683,972 Defered policy acquisition costs 3.00,548 3.338,805 Other assets 801,854 755,338 Total assets \$ 53,805,820 \$ Future policy basefits \$ 19,832,443 \$ 19,581,573 Interest-sensitive contract liabilities 14,039,919 14,029,354 388,999 Deferred income taxes 390,019 388,999 388,999 Deferred income taxes 390,019 388,999 388,999 Deferred income taxes 2,863,744 2,770,640 2,786,619 3,086,635 Collateral finance and securitization notes 2,863,744 2,770,640 3,068,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635 3,008,635	Total investments	 45,395,955		44,841,318
memiums receivable and other reinsurance balances 300,223 341/13 Permiums receivable and other reinsurance balances 2,008,409 1390,753 Reinsurance ceded receivables 760,715 6683,972 Defered policy acquisition costs 3,300,548 3,338,605 Other assets 801,854 755,338 Total assets \$ 53,005,802 \$ 53,005,802 I tabilities and Stockholders' Equity \$ 19,832,443 \$ 9,832,443 Future policy claims and benefits \$ 14,029,354 \$ 19,581,573 Interest-sensitive contract liabilities 44,649,192 42,620,265 Other policy claims and benefits 2,686,374 4,270,640 Other inabilities 986,283 10,41,809 Deferred income taxes 2,686,374 3,086,655 Collater instauruce balances 2,868,374 3,086,655 Collater af finance and securitization notes 2,868,374 3,086,655 Collater finance and securitization notes 2,868,374 3,086,655 Collater af finance and securitization notes 2,868,374 3,086,655 Collater finance and securitization notes o	Cash and cash equivalents	1,178,114		1,200,718
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Defered pilcy acquisition costs 3,300,548 3,338,605 Other assets 801,854 753,338 Total assets \$ 5,300,829 \$ 5,300,829 Liabilities and Stockbolders' Equity 14,039,919 14,029,354 Future policy benefits 14,039,919 14,029,354 Other policy claims and benefits 4,669,192 4,263,026 Other reinsurance balances 390,019 388,989 Deferred lincome taxes 2,083,744 2,770,640 Other liabilities 996,288 1,041,880 Long-term debt 2,788,619 3,088,655 Collateral finance and securitization notes 825,526 840,700 Total liabilities (see Note 8) Stockholders' Equity: Preferred stock, par value \$0,1 per share, 14,0000,000 shares authorized, 79,137,758 shares issued or outstanding Common stock - par value \$0,1 per share, 14,0000,000 shares authorized, 79,137,758 shares issued or outstanding	Premiums receivable and other reinsurance balances	2,008,409		1,930,755
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Total assets \$ Deferred income taxes </td <td>Other assets</td> <td></td> <td></td> <td></td>	Other assets			
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Interest-ensitive contract liabilities 19,632,435 3 19,832,935 Other policy claims and benefits 14,039,919 14,029,326 Other reinsurance balances 300,019 388,989 Deferred income taxes 2,863,744 2,770,640 Other liabilities 996,288 1,041,880 Long-term debt 2,786,619 3,088,635 Collateral finance and securitization notes 825,526 840,700 Total liabilities 46,385,790 46,004,797 Commitments and contingent liabilities (See Note 8) - - Stockholders' Equity: - - - Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstanding _ _ _ Other capital 1,856,226 1,848,611 - - Additional paid-in-capital 1,856,226 1,848,611 - - Retained earnings 5,329,464 5,199,130 - - Treesury stock, at cost - 14,749,207 and 14,835,256 shares (1,049,779) - - - Accumula	Liabilities and Stockholders' Equity	 		
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Other policy claims and benefits 4,649,192 4,263,026 Other reinsurance balances 390,019 388,989 Deferred income taxes 2,63,744 2,770,640 Other liabilities 996,288 1,041,880 Long-term debt 2,788,619 3,088,635 Collateral finance and securitization notes 825,526 840,700 Total liabilities (See Note 8) 4,604,797 4,604,797 Commitments and contingent liabilities (See Note 8) 4,604,797 4,604,797 Stockholders' Equity: Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstanding	Interest-sensitive contract liabilities			
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Other liabilities996,2881,041,880Long-term debt2,788,6193,088,635Collateral finance and securitization notes825,526840,700Total liabilities46,385,79046,004,797Commitments and contingent liabilities (See Note 8)Stockholders' Equity:Prefered stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstandingCommon stock - par value \$.01 per share, 10,000,000 shares authorized, 79,137,758 shares issued at March 31, 2017 and December 31, 2016791791Additional paid-in-capital1,858,2261,848,611Retained earnings5,329,4645,199,130Treasury stock, at cost - 14,749,207 and 14,835,256 shares(1,094,779)Accumulated other comprehensive income1,321,1551,133,329Total stockholders' equity7,420,0307,093,082	Deferred income taxes	,		
Long-term debt 2,788,619 3,088,635 Collateral finance and securitization notes 825,526 840,700 Total liabilities 46,385,790 46,004,797 Commitments and contingent liabilities (See Note 8) Stockholders' Equity: Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstanding	Other liabilities			
Collateral finance and securitization notes825,526840,700Total liabilities46,385,79046,004,797Commitments and contingent liabilities (See Note 8)Stockholders' Equity:Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstandingCommon stock - par value \$.01 per share, 140,000,000 shares authorized, 79,137,758 shares issued at March 31, 2017 and December 31, 2016791791Additional paid-in-capital1,858,2261,848,611Retained earnings5,329,4645,199,130Treasury stock, at cost - 14,749,207 and 14,835,256 shares(1,089,606)(1,094,779)Accumulated other comprehensive income1,321,1551,139,329Total stockholders' equity7,420,0307,093,082	Long-term debt			
Total liabilities46,385,79046,004,797Commitments and contingent liabilities (See Note 8)Stockholders' Equity: </td <td>Collateral finance and securitization notes</td> <td></td> <td></td> <td></td>	Collateral finance and securitization notes			
Commitments and contingent liabilities (See Note 8)Stockholders' Equity:Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstandingCommon stock - par value \$.01 per share, 140,000,000 shares authorized, 79,137,758 shares issued at March 31, 2017 andDecember 31, 2016Additional paid-in-capitalRetained earningsTreasury stock, at cost - 14,749,207 and 14,835,256 sharesInservence1,321,155IntegrationTotal stockholders' equityTotal stockholders' equityTotal stockholders' equity	Total liabilities			
Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstanding	Commitments and contingent liabilities (See Note 8)	-,,		-,,
Common stock - par value \$.01 per share, 140,000,000 shares authorized, 79,137,758 shares issued at March 31, 2017 and Tel December 31, 2016 791 791 Additional paid-in-capital 1,858,226 1,848,611 Retained earnings 5,329,464 5,199,130 Treasury stock, at cost - 14,749,207 and 14,835,256 shares (1,089,606) (1,094,779) Accumulated other comprehensive income 1,321,155 1,139,329 Total stockholders' equity 7,420,030 7,093,082	Stockholders' Equity:			
December 31, 2016 791 791 Additional paid-in-capital 1,858,226 1,848,611 Retained earnings 5,329,464 5,199,130 Treasury stock, at cost - 14,749,207 and 14,835,256 shares (1,089,606) (1,094,779) Accumulated other comprehensive income 1,321,155 1,139,329 Total stockholders' equity 7,420,030 7,093,082	Preferred stock - par value \$.01 per share, 10,000,000 shares authorized, no shares issued or outstanding	_		_
Retained earnings 5,329,464 5,199,130 Treasury stock, at cost - 14,749,207 and 14,835,256 shares (1,089,606) (1,094,779) Accumulated other comprehensive income 1,321,155 1,139,329 Total stockholders' equity 7,420,030 7,093,082		791		791
Treasury stock, at cost - 14,749,207 and 14,835,256 shares (1,089,606) (1,094,779) Accumulated other comprehensive income 1,321,155 1,139,329 Total stockholders' equity 7,420,030 7,093,082	Additional paid-in-capital	1,858,226		1,848,611
Accumulated other comprehensive income(1,049,000)(1,094,779)Total stockholders' equity1,321,1551,139,329Total stockholders' equity7,420,0307,093,082	Retained earnings	5,329,464		5,199,130
Accumulated other comprehensive income1,321,1551,139,329Total stockholders' equity7,420,0307,093,082	Treasury stock, at cost - 14,749,207 and 14,835,256 shares	(1,089,606)		(1,094,779)
Total stockholders' equity 7,420,030 7,093,082	Accumulated other comprehensive income			
The set it is big in the set of t	Total stockholders' equity			
	Total liabilities and stockholders' equity	\$ 53,805,820	\$	

See accompanying notes to condensed consolidated financial statements (unaudited).

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES CONDENSED CONSOLIDATED STATEMENTS OF INCOME (Unaudited)

		Three months ended March 31,					
		2017		2016			
Revenues:	()	Dollars in thousands	except	per share data)			
Net premiums	\$	2,365,696	\$	2,157,005			
Investment income, net of related expenses		514,364		417,266			
Investment related gains (losses), net:							
Other-than-temporary impairments on fixed maturity securities		(17,189)		(33,817)			
Other investment related gains (losses), net		77,712		(87,069)			
Total investment related gains (losses), net		60,523		(120,886)			
Other revenues		68,157		59,183			
Total revenues		3,008,740		2,512,568			
Benefits and Expenses:							
Claims and other policy benefits		2,106,145		1,886,764			
Interest credited		107,684		87,905			
Policy acquisition costs and other insurance expenses		379,389		233,763			
Other operating expenses		158,506		157,424			
Interest expense		42,402		32,807			
Collateral finance and securitization expense		6,770		6,325			
Total benefits and expenses		2,800,896		2,404,988			
Income before income taxes		207,844		107,580			
Provision for income taxes		62,332		31,108			
Net income	\$	145,512	\$	76,472			
Earnings per share:			_				
Basic earnings per share	\$	2.26	\$	1.18			
Diluted earnings per share	\$	2.22	\$	1.17			
Dividends declared per share	\$	0.41	\$	0.37			

See accompanying notes to condensed consolidated financial statements (unaudited).

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (Unaudited)

	Three months ended March 31,			
		2017		2016
Comprehensive income		(Dollars ir	thousan	ıds)
Net income	\$	145,512	\$	76,472
Other comprehensive income, net of tax:				
Foreign currency translation adjustments		(22,213)		77,733
Net unrealized investment gains		203,115		547,225
Defined benefit pension and postretirement plan adjustments		924		(2,859)
Total other comprehensive income, net of tax		181,826		622,099
Total comprehensive income	\$	327,338	\$	698,571

See accompanying notes to condensed consolidated financial statements (unaudited).

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (Unaudited)

	 Three months ended March 3			
	 2017		2016	
	(Dollars ir	n thousan	ds)	
Cash Flows from Operating Activities:				
Net income	\$ 145,512	\$	76,472	
Adjustments to reconcile net income to net cash provided by operating activities:				
Change in operating assets and liabilities:				
Accrued investment income	(10,501)		(24,379	
Premiums receivable and other reinsurance balances	(54,845)		(51,778	
Deferred policy acquisition costs	58,962		(79,468	
Reinsurance ceded receivable balances	(81,046)		(68,91	
Future policy benefits, other policy claims and benefits, and other reinsurance balances	396,459		375,670	
Deferred income taxes	50,110		23,40	
Other assets and other liabilities, net	(11,101)		(18,51	
Amortization of net investment premiums, discounts and other	(23,471)		(15,78	
Depreciation and amortization expense	6,845		6,12	
Investment related (gains) losses, net	(60,523)		120,88	
Other, net	 964		24,84	
Vet cash provided by operating activities	417,365		368,57	
Cash Flows from Investing Activities:				
Sales of fixed maturity securities available-for-sale	1,563,956		977,31	
Maturities of fixed maturity securities available-for-sale	201,515		116,64	
Sales of equity securities	152,509		40,42	
Principal payments on mortgage loans on real estate	88,835		141,22	
Principal payments on policy loans	24,663		16,93	
Purchases of fixed maturity securities available-for-sale	(1,933,120)		(1,768,88	
Purchases of equity securities	(14,646)		(20,28	
Cash invested in mortgage loans on real estate	(184,575)		(305,25	
Cash invested in funds withheld at interest	(2,753)		(4,98	
Purchases of property and equipment	(16,893)		-	
Change in short-term investments	23,668		124,65	
Change in other invested assets	 (14,126)		(27,40	
let cash used in investing activities	(110,967)		(709,59	
Cash Flows from Financing Activities:				
Dividends to stockholders	(26,381)		(24,01	
Repayment of collateral finance and securitization notes	(16,908)		(6,87	
Principal payments of long-term debt	(300,636)		(61	
Purchases of treasury stock	(3,067)		(105,80	
Exercise of stock options, net	1,719		3,23	
Change in cash collateral for derivative positions and other arrangements	(3,628)		40,39	
Deposits on universal life and other investment type policies and contracts Withdrawals on universal life and other investment type	202,850		432,68	
policies and contracts	(201,784)		(41,61	
let cash provided by (used in) financing activities	(347,835)		297,39	
ffect of exchange rate changes on cash	18,833		20,43	
hange in cash and cash equivalents	(22,604)		(23,19	
Cash and cash equivalents, beginning of period	 1,200,718		1,525,27	
Cash and cash equivalents, end of period	\$ 1,178,114	\$	1,502,08	
upplemental disclosures of cash flow information:				
Interest paid	\$ 46,401	\$	29,11	
Income taxes paid, net of refunds	\$ 12,132	\$	12,32	
Ion-cash transactions:				
Transfer of invested assets	\$ 1,653	\$	68	

REINSURANCE GROUP OF AMERICA, INCORPORATED AND SUBSIDIARIES Notes to Condensed Consolidated Financial Statements (Unaudited)

1. Business and Basis of Presentation

Reinsurance Group of America, Incorporated ("RGA") is an insurance holding company that was formed on December 31, 1992. The accompanying unaudited condensed consolidated financial statements of RGA and its subsidiaries (collectively, the "Company") have been prepared in conformity with accounting principles generally accepted in the United States of America for interim financial information and with the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, these condensed consolidated financial statements do not include all of the information and footnotes required by accounting principles generally accepted in the United States of America for complete financial statements. In the opinion of management, all adjustments, including normal recurring adjustments necessary for a fair presentation have been included. Results for the three months ended March 31, 2017 are not necessarily indicative of the results that may be expected for the year ending December 31, 2017. These unaudited condensed consolidated financial statements include the accounts of RGA and its subsidiaries, and all intercompany accounts and transactions have been eliminated. These condensed consolidated statements should be read in conjunction with the Company's 2016 Annual Report on Form 10-K filed with the Securities and Exchange Commission ("SEC") on February 28, 2017 (the "2016 Annual Report").

2. Earnings Per Share

The following table sets forth the computation of basic and diluted earnings per share on net income (in thousands, except per share information):

	 Three months ended March 31,				
	2017		2016		
Earnings:					
Net income (numerator for basic and diluted calculations)	\$ 145,512	\$	76,472		
Shares:					
Weighted average outstanding shares (denominator for basic calculation)	64,353		64,568		
Equivalent shares from outstanding stock options	1,318		649		
Denominator for diluted calculation	 65,671		65,217		
Earnings per share:					
Basic	\$ 2.26	\$	1.18		
Diluted	\$ 2.22	\$	1.17		

The calculation of common equivalent shares does not include the impact of options having a strike or conversion price that exceeds the average stock price for the earnings period, as the result would be antidilutive. The calculation of common equivalent shares also excludes the impact of outstanding performance contingent shares, as the conditions necessary for their issuance have not been satisfied as of the end of the reporting period. For the three months ended March 31, 2017, approximately 0.2 million stock options and approximately 0.5 million performance contingent shares were excluded from the calculation. For the three months ended March 31, 2016, approximately 0.8 million stock options and approximately 0.9 million performance contingent shares were excluded from the calculation.

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3. Equity

Common stock

The changes in number of common stock shares, issued, held in treasury and outstanding are as follows for the periods indicated:

	Issued	Held In Treasury	Outstanding
Balance, December 31, 2016	79,137,758	14,835,256	64,302,502
Stock-based compensation (1)	_	(86,049)	86,049
Balance, March 31, 2017	79,137,758	14,749,207	64,388,551
	Issued	Held In Treasury	Outstanding
Balance, December 31, 2015	79,137,758	13,933,232	65,204,526
Common stock acquired	—	1,232,684	(1,232,684)
Stock-based compensation (1)		(93,568)	93,568
Balance, March 31, 2016	79,137,758	15,072,348	64,065,410

(1) Represents net shares issued from treasury pursuant to the Company's equity-based compensation programs.

Common Stock Held in Treasury

Common stock held in treasury is accounted for at average cost. Gains resulting from the reissuance of common stock held in treasury are credited to additional paid-in capital. Losses resulting from the reissuance of common stock held in treasury are charged first to additional paid-in capital to the extent the Company has previously recorded gains on treasury share transactions, then to retained earnings.

On January 26, 2017, RGA's board of directors authorized a share repurchase program for up to \$400.0 million of RGA's outstanding common stock. The authorization was effective immediately and does not have an expiration date. In connection with this new authorization, the board of directors terminated the stock repurchase authority granted in 2016. During the three months ended March 31, 2017, no common stock was repurchased by RGA under this program.

Accumulated Other Comprehensive Income (Loss)

The balance of and changes in each component of accumulated other comprehensive income (loss) ("AOCI") for the three months ended March 31, 2017 and 2016 are as follows (dollars in thousands):

	Accumulated Other Comprehensive Income (Loss), Net of Income Tax									
	Accumulated Currency Translation Adjustments		Unrealized Appreciation (Depreciation) of Investments ⁽¹⁾		Pension and Postretirement Benefits			Total		
Balance, December 31, 2016	\$	(172,541)	\$	1,355,033	\$	(43,163)	\$	1,139,329		
Other comprehensive income (loss) before reclassifications		(50,735)		283,443		(27)		232,681		
Amounts reclassified to (from) AOCI		_		5,762		1,456		7,218		
Deferred income tax benefit (expense)		28,522		(86,090)		(505)		(58,073)		
Balance, March 31, 2017	\$	(194,754)	\$	1,558,148	\$	(42,239)	\$	1,321,155		

	Accumulated Other Comprehensive Income (Loss), Net of Income Tax									
	Accumulated Currency Translation Adjustments		Unrealized Appreciation (Depreciation) of Investments ⁽¹⁾		AppreciationPension and(Depreciation)Postretirement			Total		
Balance, December 31, 2015	\$	(181,151)	\$	935,697	\$	(46,262)	\$	708,284		
Other comprehensive income (loss) before reclassifications		72,695		781,293		(5,932)		848,056		
Amounts reclassified to (from) AOCI		—		10,237		1,551		11,788		
Deferred income tax benefit (expense)		5,038		(244,305)		1,522		(237,745)		
Balance, March 31, 2016	\$	(103,418)	\$	1,482,922	\$	(49,121)	\$	1,330,383		

(1) Includes cash flow hedges of \$7,690 and \$(2,496) as of March 31, 2017 and December 31, 2016, respectively, and \$(21,794) and \$(29,397) as of March 31, 2016 and December 31, 2015, respectively. See Note 5 - "Derivative Instruments" for additional information on cash flow hedges.

The following table presents the amounts of AOCI reclassifications for the three months ended March 31, 2017 and 2016 (dollars in thousands):

		Amount Reclassified from AOCI Three months ended March 31,								
Details about AOCI Components		2017		2016	Affected Line Item in Statement of Income					
Net unrealized investment gains (losses):										
Net unrealized gains and losses on available-for-sale securities	\$	(11,857)	\$	(18,291)	Investment related gains (losses), net					
Cash flow hedges - Currency/Interest rate		197		160	(1)					
Cash flow hedges - Forward bond purchase commitments		50		788	(1)					
Deferred policy acquisition costs attributed to unrealized gains and losses		5,848		7,106	(2)					
Total		(5,762)		(10,237)						
Provision for income taxes		3,194		4,649						
Net unrealized gains (losses), net of tax	\$	(2,568)	\$	(5,588)						
Amortization of defined benefit plan items:										
Prior service cost (credit)	\$	82	\$	(78)	(3)					
Actuarial gains/(losses)		(1,538)		(1,473)	(3)					
Total		(1,456)		(1,551)						
Provision for income taxes		510		543						
Amortization of defined benefit plans, net of tax	\$	(946)	\$	(1,008)						
Total reclassifications for the period	\$	(3,514)	\$	(6,596)						

(1) See Note 5 - "Derivative Instruments" for additional information on cash flow hedges.

(2) This AOCI component is included in the computation of the deferred policy acquisition cost. See Note 8 – "Deferred Policy Acquisition Costs" of the 2016 Annual Report for additional details.

(3) This AOCI component is included in the computation of the net periodic pension cost. See Note 10 – "Employee Benefit Plans" for additional details.

Equity Based Compensation

Equity compensation expense was \$9.6 million and \$11.5 million for the three months ended March 31, 2017 and 2016, respectively. In the first quarter of 2017, the Company granted 0.2 million stock appreciation rights at \$129.72 weighted average exercise price per share and 0.2 million performance contingent units to employees. Additionally, non-employee directors were granted a total of 8,177 shares of common stock. As of March 31, 2017, 1.8 million share options at a weighted average strike price per share of \$60.33 were vested and exercisable, with a remaining weighted average exercise period of 5.0 years.

4. Investments

Fixed Maturity and Equity Securities Available-for-Sale

The following tables provide information relating to investments in fixed maturity and equity securities by sector as of March 31, 2017 and December 31, 2016 (dollars in thousands):

March 31, 2017:	Amortized	Unrealized	Unrealized	Е	Stimated Fair	% of	Other-than- temporary impairments
	Cost	Gains	Losses		Value	Total	in AOCI
Available-for-sale:							
Corporate securities	\$ 19,281,539	\$ 1,037,337	\$ 157,423	\$	20,161,453	61.8%	\$
Canadian and Canadian provincial governments	2,601,403	1,122,418	3,457		3,720,364	11.4	—
Residential mortgage-backed securities	1,281,171	34,382	11,676		1,303,877	4.0	_
Asset-backed securities	1,379,251	14,480	13,141		1,380,590	4.2	275
Commercial mortgage-backed securities	1,272,020	24,353	7,035		1,289,338	3.9	_
U.S. government and agencies	1,522,651	15,135	55,334		1,482,452	4.5	_
State and political subdivisions	566,553	40,471	11,567		595,457	1.8	_
Other foreign government, supranational and foreign government-sponsored enterprises	2,635,979	136,850	11,567		2,761,262	8.4	_
Total fixed maturity securities	\$ 30,540,567	\$ 2,425,426	\$ 271,200	\$	32,694,793	100.0%	\$ 275
Non-redeemable preferred stock	\$ 33,656	\$ 360	\$ 2,801	\$	31,215	28.0%	
Other equity securities	83,473	532	3,604		80,401	72.0	
Total equity securities	\$ 117,129	\$ 892	\$ 6,405	\$	111,616	100.0%	

December 31, 2016:	Amortized	Unrealized	Unrealized	Estimated Fair		% of	te im	ther-than- emporary pairments
	 Cost	 Gains	 Losses		Value	Total	i	in AOCI
Available-for-sale:								
Corporate securities	\$ 18,924,711	\$ 911,618	\$ 217,245	\$	19,619,084	61.1%	\$	_
Canadian and Canadian provincial governments	2,561,605	1,085,982	3,541		3,644,046	11.4		_
Residential mortgage-backed securities	1,258,039	33,917	13,380		1,278,576	4.0		(375)
Asset-backed securities	1,443,822	9,350	23,828		1,429,344	4.5		275
Commercial mortgage-backed securities	1,342,440	28,973	7,759		1,363,654	4.2		_
U.S. government and agencies	1,518,702	12,644	63,044		1,468,302	4.6		_
State and political subdivisions	566,761	37,499	12,464		591,796	1.8		_
Other foreign government, supranational and foreign government-sponsored enterprises	2,595,707	123,054	19,938		2,698,823	8.4		_
Total fixed maturity securities	\$ 30,211,787	\$ 2,243,037	\$ 361,199	\$	32,093,625	100.0%	\$	(100)
Non-redeemable preferred stock	\$ 55,812	\$ 1,648	\$ 6,337	\$	51,123	18.6%		
Other equity securities	229,767	1,792	7,321		224,238	81.4		
Total equity securities	\$ 285,579	\$ 3,440	\$ 13,658	\$	275,361	100.0%		

The Company enters into various collateral arrangements with counterparties that require both the pledging and acceptance of fixed maturity securities as collateral. Pledged fixed maturity securities are included in fixed maturity securities, available-for-sale in the condensed consolidated balance sheets. Fixed maturity securities received as collateral are held in separate custodial accounts and are not recorded on the Company's condensed consolidated balance sheets. Subject to certain constraints, the Company is permitted by contract to sell or repledge collateral it receives; however, as of March 31, 2017 and December 31, 2016, none of the collateral received had been sold or repledged. The Company also holds assets in trust to satisfy collateral requirements under certain third-party reinsurance treaties. The following table includes fixed maturity securities pledged and received as collateral and assets in trust held to satisfy collateral requirements under derivative transactions and certain third-party reinsurance treaties as of March 31, 2017 and December 31, 2016 (dollars in thousands):

	March	31, 20	017		Decembe	31, 2016			
	 Amortized Cost						Estimated Fair Value		
Fixed maturity securities pledged as collateral	\$ 183,860	\$	189,387	\$	207,066	\$	210,676		
Fixed maturity securities received as collateral	n/a		414,893		n/a		300,925		
Assets in trust held to satisfy collateral requirements	12,157,811		13,015,274		12,135,258		12,874,370		

The Company monitors its concentrations of financial instruments on an ongoing basis and mitigates credit risk by maintaining a diversified investment portfolio which limits exposure to any one issuer. The Company's exposure to concentrations of credit risk from single issuers greater than 10% of the Company's stockholders' equity included securities of the U.S. government and its agencies as well as the securities disclosed below as of March 31, 2017 and December 31, 2016 (dollars in thousands).

	March	31, 201	7	Decemb	er 31, 2	2016
	 Amortized Cost		Estimated Fair Value	 Amortized Cost		Estimated Fair Value
Fixed maturity securities guaranteed or issued by:						
Canadian province of Quebec	\$ 1,020,682	\$	1,644,422	\$ 1,004,261	\$	1,612,957
Canadian province of Ontario	852,739		1,157,169	832,764		1,126,433

The amortized cost and estimated fair value of fixed maturity securities classified as available-for-sale at March 31, 2017 are shown by contractual maturity in the table below (dollars in thousands). Actual maturities can differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties. Asset and mortgage-backed securities are shown separately in the table below, as they are not due at a single maturity date.

	Amortized Cost	Estimated Fair Value
Available-for-sale:		
Due in one year or less	\$ 837,801	\$ 849,530
Due after one year through five years	6,853,278	7,132,145
Due after five years through ten years	9,113,078	9,548,835
Due after ten years	9,803,968	11,190,478
Asset and mortgage-backed securities	3,932,442	3,973,805
Total	\$ 30,540,567	\$ 32,694,793

Corporate Fixed Maturity Securities

The tables below show the major industry types of the Company's corporate fixed maturity holdings as of March 31, 2017 and December 31, 2016 (dollars in thousands):

March 31, 2017:		Estimated										
	A	Amortized Cost	Fair Value	% of Total								
Finance	\$	6,862,721	\$	7,103,865	35.2%							
Industrial		10,398,548		10,889,185	54.0							
Utility		2,020,270		2,168,403	10.8							
Total	\$	19,281,539	\$	20,161,453	100.0%							

December 31, 2016:				
	A	mortized Cost	 Fair Value	% of Total
Finance	\$	6,725,199	\$ 6,888,968	35.2%
Industrial		10,228,813	10,639,613	54.2
Utility		1,970,699	2,090,503	10.6
Total	\$	18,924,711	\$ 19,619,084	100.0%

Other-Than-Temporary Impairments - Fixed Maturity and Equity Securities

As discussed in Note 2 – "Summary of Significant Accounting Policies" of the 2016 Annual Report, a portion of certain other-than-temporary impairment ("OTTI") losses on fixed maturity securities is recognized in AOCI. For these securities, the net amount recognized in the condensed consolidated statements of income ("credit loss impairments") represents the difference between the amortized cost of the security and the net present value of its projected future cash flows discounted at the effective interest rate implicit in the debt security prior to impairment. Any remaining difference between the fair value and amortized cost is recognized in AOCI. The following table sets forth the amount of pre-tax credit loss impairments on fixed maturity securities held by the Company as of the dates indicated, for which a portion of the OTTI loss was recognized in AOCI, and the corresponding changes in such amounts (dollars in thousands):

	 Three months ended March 31,						
	2017		2016				
Balance, beginning of period	\$ 6,013	\$	7,284				
Credit loss OTTI previously recognized on securities impaired to fair value during the period	(2,336)		_				
Balance, end of period	\$ 3,677	\$	7,284				

Unrealized Losses for Fixed Maturity and Equity Securities Available-for-Sale

The following table presents the total gross unrealized losses for the 1,308 and 1,535 fixed maturity and equity securities as of March 31, 2017 and December 31, 2016, respectively, where the estimated fair value had declined and remained below amortized cost by the indicated amount (dollars in thousands):

	March 3	31, 2017		r 31, 2016	
	 Gross Unrealized Losses	nrealized		Gross Unrealized Losses	% of Total
Less than 20%	\$ 251,640	90.7%	\$	337,831	90.1%
20% or more for less than six months	4,113	1.5		19,438	5.2
20% or more for six months or greater	21,852	7.8		17,588	4.7
Total	\$ 277,605	100.0%	\$	374,857	100.0%

The Company's determination of whether a decline in value is other-than-temporary includes analysis of the underlying credit and the extent and duration of a decline in value. The Company's credit analysis of an investment includes determining whether the issuer is current on its contractual payments, evaluating whether it is probable that the Company will be able to collect all amounts due according to the contractual terms of the security and analyzing the overall ability of the Company to recover the amortized cost of the investment. In the Company's impairment review process, the duration and severity of an unrealized loss position for equity securities are given greater weight and consideration given the lack of contractual cash flows or deferability features.

The following tables present the estimated fair values and gross unrealized losses, including other-than-temporary impairment losses reported in AOCI, for 1,308 and 1,535 fixed maturity and equity securities that have estimated fair values below amortized cost as of March 31, 2017 and December 31, 2016, respectively (dollars in thousands). These investments are presented by class and grade of security, as well as the length of time the related fair value has remained below amortized cost.

	Less than 12 months 12 months or greater				eater	Total						
				Gross				Gross				Gross
March 31, 2017:		Estimated	I	Unrealized	E	Estimated	U	nrealized		Estimated		Unrealized
		Fair Value	Losses		Fair Value		Losses		Fair Value			Losses
Investment grade securities:												
Corporate securities	\$	3,658,776	\$	89,271	\$	412,413	\$	33,285	\$	4,071,189	\$	122,556
Canadian and Canadian provincial governments		137,014		3,457		_		_		137,014		3,457
Residential mortgage-backed securities		467,812		9,394		101,886		2,277		569,698		11,671
Asset-backed securities		381,219		4,213		270,456		8,248		651,675		12,461
Commercial mortgage-backed securities		370,152		6,816		7,398		111		377,550		6,927
U.S. government and agencies		1,122,884		55,334		_		_		1,122,884		55,334
State and political subdivisions		155,720		7,963		13,086		3,604		168,806		11,567
Other foreign government, supranational and foreign government- sponsored enterprises		432,726		9,041		40,431		1,985		473,157		11,026
Total investment grade securities		6,726,303		185,489		845,670		49,510		7,571,973		234,999
Below investment grade securities:												
Corporate securities		195,427		3,023		110,909		31,844		306,336		34,867
Residential mortgage-backed securities		_		_		122		5		122		5
Asset-backed securities		_		_		11,463		680		11,463		680
Commercial mortgage-backed securities		1,891		108		_		_		1,891		108
Other foreign government, supranational and foreign government- sponsored enterprises		9,704		84		14,163		457		23,867		541
Total below investment grade securities		207,022		3,215		136,657		32,986		343,679	_	36,201
Total fixed maturity securities	\$	6,933,325	\$	188,704	\$	982,327	\$	82,496	\$	7,915,652	\$	271,200
Non-redeemable preferred stock	\$	_	\$	_	\$	24,289	\$	2,801	\$	24,289	\$	2,801
Other equity securities		70,591		3,604		_		_		70,591		3,604
Total equity securities	\$	70,591	\$	3,604	\$	24,289	\$	2,801	\$	94,880	\$	6,405

	 Less than	Less than 12 months 12 months			is or greater			Total			
			Gross		Gross						Gross
December 31, 2016:	Estimated	I	Unrealized		Estimated	U	Inrealized		Estimated		Unrealized
	Fair Value		Losses		Fair Value		Losses		Fair Value		Losses
Investment grade securities:											
Corporate securities	\$ 4,661,706	\$	124,444	\$	549,273	\$	43,282	\$	5,210,979	\$	167,726
Canadian and Canadian provincial governments	101,578		3,541		_		_		101,578		3,541
Residential mortgage-backed securities	490,473		9,733		112,216		3,635		602,689		13,368
Asset-backed securities	563,259		12,010		257,166		9,653		820,425		21,663
Commercial mortgage-backed securities	368,465		6,858		10,853		166		379,318		7,024
U.S. government and agencies	1,056,101		63,044		_		_		1,056,101		63,044
State and political subdivisions	187,194		9,396		13,635		3,068		200,829		12,464
Other foreign government, supranational and foreign government- sponsored enterprises	 524,236		13,372		51,097		2,981		575,333		16,353
Total investment grade securities	7,953,012		242,398		994,240		62,785		8,947,252		305,183
Below investment grade securities:											
Corporate securities	330,757		7,914		163,152		41,605		493,909		49,519
Residential mortgage-backed securities	_		_		412		12		412		12
Asset-backed securities	5,904		700		12,581		1,465		18,485		2,165
Commercial mortgage-backed securities	5,815		735		_		_		5,815		735
Other foreign government, supranational and foreign government- sponsored enterprises	32,355		1,258		39,763		2,327		72,118		3,585
Total below investment grade securities	 374,831		10,607		215,908		45,409		590,739		56,016
Total fixed maturity securities	\$ 8,327,843	\$	253,005	\$	1,210,148	\$	108,194	\$	9,537,991	\$	361,199
Non-redeemable preferred stock	\$ 10,831	\$	831	\$	21,879	\$	5,506	\$	32,710	\$	6,337
Other equity securities	202,068		7,020		6,751		301		208,819		7,321
Total equity securities	\$ 212,899	\$	7,851	\$	28,630	\$	5,807	\$	241,529	\$	13,658

The Company has no intention to sell, nor does it expect to be required to sell, the securities outlined in the table above, as of the dates indicated. However, unforeseen facts and circumstances may cause the Company to sell fixed maturity and equity securities in the ordinary course of managing its portfolio to meet certain diversification, credit quality and liquidity guidelines.

Unrealized losses on below investment grade securities as of March 31, 2017 are primarily related to high-yield corporate securities. Changes in unrealized losses are primarily being driven by changes in credit spreads and interest rates.

Investment Income, Net of Related Expenses

Major categories of investment income, net of related expenses, consist of the following (dollars in thousands):

	Three months ended March 31,					
		2017		2016		
Fixed maturity securities available-for-sale	\$	324,500	\$	312,414		
Mortgage loans on real estate		44,347		39,792		
Policy loans		15,272		16,134		
Funds withheld at interest		127,578		55,980		
Short-term investments and cash and cash equivalents		1,510		2,191		
Other		19,827		8,608		
Investment income		533,034		435,119		
Investment expense		(18,670)		(17,853)		
Investment income, net of related expenses	\$	514,364	\$	417,266		

Investment Related Gains (Losses), Net

Investment related gains (losses), net consist of the following (dollars in thousands):

	 Three months ended March 31			
	2017		2016	
Fixed maturity and equity securities available for sale:				
Other-than-temporary impairment losses on fixed maturity securities recognized in earnings	\$ (17,189)	\$	(33,817)	
Gain on investment activity	17,893		27,192	
Loss on investment activity	(12,563)		(11,787)	
Other impairment losses and change in mortgage loan provision	(99)		(2,060)	
Derivatives and other, net	72,481		(100,414)	
Total investment related gains (losses), net	\$ 60,523	\$	(120,886)	

The fixed maturity impairments for the three months ended March 31, 2017 and 2016 were largely related to high-yield energy and emerging market corporate securities. The fluctuations in investment related gains (losses) for derivatives and other for the three months ended March 31, 2017, compared to the same period in 2016, are primarily due to changes in the fair value of embedded derivatives and interest rate swaps.

During the three months ended March 31, 2017 and 2016, the Company sold fixed maturity and equity securities with fair values of \$576.2 million and \$242.6 million at losses of \$12.6 million and \$11.8 million, respectively. The Company generally does not buy and sell securities on a short-term basis.

Securities Borrowing, Lending and Other

The Company participates in securities borrowing programs whereby securities, which are not reflected on the Company's condensed consolidated balance sheets, are borrowed from third parties. The borrowed securities are used to provide collateral under affiliated reinsurance transactions. The Company is required to maintain a minimum of 100% of the fair value, or par value, under certain programs, of the borrowed securities as collateral. The collateral consists of rights to reinsurance treaty cash flows. If cash flows from the reinsurance treaties are insufficient to maintain the minimum collateral requirement, the Company may substitute cash or securities to meet the requirement. No cash or securities have been pledged by the Company for this purpose.

The Company also participates in a securities lending program whereby securities, reflected as investments on the Company's consolidated balance sheets, are loaned to a third party. The Company receives securities as collateral, in an amount equal to a minimum of 105% of the fair value of the securities lent. The securities received are not reflected on the Company's condensed consolidated balance sheets.

The Company also participates in repurchase/reverse repurchase programs in which securities, reflected as investments on the Company's condensed consolidated balance sheets, are pledged to third parties. In return, the Company receives securities from the third parties with an estimated fair value equal to a minimum of 100% of the securities pledged. The securities received are not reflected on the Company's condensed consolidated balance sheets.

The Company also participates in a repurchase program in which securities, reflected as investments on the Company's condensed consolidated balance sheets, are pledged to a third party. In return, the Company receives cash from the third party, which is reflected as a payable to the third party and included in other liabilities on the condensed consolidated balance sheets. The Company is required to maintain a minimum collateral balance with a fair value of 102% of the cash received.

The following table includes the amount of borrowed securities, securities lent and securities collateral received as part of the securities lending program and repurchased/reverse repurchased securities pledged and received as of March 31, 2017 and December 31, 2016 (dollars in thousands).

		March		December 31, 2016				
	F	Amortized Cost		Estimated Fair Value		Amortized Cost		Estimated Fair Value
Borrowed securities	\$	265,180	\$	279,637	\$	263,820	\$	279,186
Securities lending:								
Securities loaned		87,865		88,486		74,389		73,625
Securities received		n/a		94,000		n/a		80,000
Repurchase program/reverse repurchase program:								
Securities pledged		480,965		504,645		476,531		499,891
Securities received		n/a		518,358		n/a		515,200

The Company also held cash collateral for repurchase program/reverse repurchase programs of \$30.5 million and \$28.8 million at March 31, 2017 and December 31, 2016, respectively.

The following table presents information on the Company's securities lending and repurchase transactions as of March 31, 2017 and December 31, 2016 (dollars in thousands). Collateral associated with certain borrowed securities is not included within the table, as the collateral pledged to each counterparty is the right to reinsurance treaty cash flows.

 March 31, 2017											
		Remaining	Contractua	al Maturity of the	e Agreeme	ents					
Overnight and Continuous Up to 30 Days 30-90 Days		Greate	er than 90 Days		Total						
\$ —	\$	—	\$	—	\$	88,486	\$	88,486			
\$ _	\$	_	\$	_	\$	88,486	\$	88,486			
\$ —	\$	_	\$	2,531	\$	172,119	\$	174,650			
_		—		—		90,422		90,422			
_		_		30,006		185,811		215,817			
_		—		—		20,411		20,411			
3,345		_		—		_		3,345			
3,345		_		32,537		468,763		504,645			
\$ 3,345	\$	_	\$	32,537	\$	557,249	\$	593,131			
5 \$	<u>Continuous</u> <u>\$</u> — <u>\$</u> — <u>\$</u> — - - - - - - - - - - - - -	Continuous Up to \$ \$ \$ \$ \$ \$ \$ \$	Overnight and Continuous Up to 30 Days \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — \$ — — \$ — — — — — — 3,345 — 3,345 —	Remaining Contracture Overnight and Continuous Up to 30 Days 30 \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - \$ - \$ \$ - - \$ - \$ \$ - - - - - - \$ -	S — \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … \$ … … … \$	Remaining Contractual Maturity of the Agreeme Overnight and Continuous Up to 30 Days 30-90 Days Greate \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ — \$ \$ — \$ — \$ 30,006 _ — — — — — _ _ 3,345 — — 32,537 _ _	S	S S			

Gross amount of recognized liabilities for securities lending and repurchase transactions in preceding table	\$ 642,874
Amounts related to agreements not included in offsetting disclosure	\$ 49,743

	 December 31, 2016										
	Remaining Contractual Maturity of the Agreements										
	rnight and ntinuous	Up to	o 30 Days	30)-90 Days	Greate	er than 90 Days		Total		
Securities lending transactions:											
Corporate securities	\$ 	\$	_	\$	4,017	\$	69,608	\$	73,625		
Total	\$ _	\$	_	\$	4,017	\$	69,608	\$	73,625		
Repurchase transactions:											
Corporate securities	\$ —	\$	—	\$	3,220	\$	166,979	\$	170,199		
Residential mortgage-backed securities	—		—		—		92,546		92,546		
U.S. government and agencies	—		—		_		216,000		216,000		
Foreign government	—		—		—		19,900		19,900		
Other	1,246		—		_		—		1,246		
Total	1,246		_		3,220		495,425		499,891		
Total borrowings	\$ 1,246	\$		\$	7,237	\$	565,033	\$	573,516		

Gross amount of recognized liabilities for securities lending and repurchase transactions in preceding table	\$ 624,032
Amounts related to agreements not included in offsetting disclosure	\$ 50,516

The Company has elected to offset amounts recognized as receivables and payables resulting from the repurchase/reverse repurchase programs. After the effect of offsetting, the net amount presented on the consolidated balance sheets was a liability of \$2.5 million and \$5.5 million as of March 31, 2017 and December 31, 2016, respectively. As of March 31, 2017 and December 31, 2016, the Company recognized payables resulting from cash received as collateral associated with a repurchase agreement, as discussed above. Amounts owed to and due from the counterparties may be settled in cash or offset, in accordance with the agreements.

Mortgage Loans on Real Estate

Mortgage loans represented approximately 8.5% and 8.4% of the Company's total investments as of March 31, 2017 and December 31, 2016. The Company makes mortgage loans on income producing properties that are geographically diversified throughout the U.S. with the largest concentration being in the state of California, which represented 23.5% and 22.1% of mortgage loans on real estate as of March 31, 2017 and December 31, 2016, respectively. The recorded investment in mortgage loans on real estate presented below is gross of unamortized deferred loan origination fees and expenses, and valuation allowances.

The distribution of mortgage loans by property type is as follows as of March 31, 2017 and December 31, 2016 (dollars in thousands):

	March 31,	2017		December	er 31, 2016	
Ca	arrying Value	% of Total		Carrying Value	% of Total	
\$	1,329,399	34.2%	\$	1,270,113	33.6%	
	1,202,317	31.0		1,179,936	31.2	
	750,978	19.4		713,461	18.8	
	425,614	11.0		447,088	11.8	
	171,461	4.4		172,609	4.6	
	3,879,769	100.0%	\$	3,783,207	100.0%	
	(674)			_		
	(7,786)			(7,685)		
\$	3,871,309		\$	3,775,522		
	¢	Carrying Value \$ 1,329,399 1,202,317 750,978 425,614 171,461 3,879,769 (674) (7,786)	\$ 1,329,399 34.2% 1,202,317 31.0 750,978 19.4 425,614 11.0 171,461 4.4 3,879,769 100.0% (674) (7,786)	Carrying Value % of Total \$ 1,329,399 34.2% \$ 1,202,317 31.0 \$ 750,978 19.4 \$ 425,614 11.0 \$ 171,461 4.4 \$ 3,879,769 100.0% \$ (674) (7,786) \$	Carrying Value % of Total Carrying Value \$ 1,329,399 34.2% \$ 1,270,113 1,202,317 31.0 1,179,936 750,978 19.4 713,461 425,614 11.0 447,088 171,461 4.4 172,609 3,879,769 100.0% \$ 3,783,207 (674) (7,786)	



The maturities of the mortgage loans as of March 31, 2017 and December 31, 2016 are as follows (dollars in thousands):

	March	31, 2017	Decembe	r 31, 2016
	Recorded Investment	% of Total	 Recorded Investment	% of Total
Due within five years	\$ 907,453	23.4%	\$ 822,073	21.7%
Due after five years through ten years	2,144,303	55.3	2,099,559	55.5
Due after ten years	828,013	21.3	861,575	22.8
Total	\$ 3,879,769	100.0%	\$ 3,783,207	100.0%

The following tables set forth certain key credit quality indicators of the Company's recorded investment in mortgage loans as of March 31, 2017 and December 31, 2016 (dollars in thousands):

				R	ecorded Investment			
		De	bt Service Ratios					
	 >1.20x		1.00x - 1.20x		<1.00x		Total	% of Total
March 31, 2017:								
Loan-to-Value Ratio								
0% - 59.99%	\$ 1,967,449	\$	64,541	\$	1,183	\$	2,033,173	52.3%
60% - 69.99%	1,259,650		34,584		—		1,294,234	33.4
70% - 79.99%	368,504		20,734		24,207		413,445	10.7
Greater than 80%	 103,896				35,021		138,917	3.6
Total	\$ 3,699,499	\$	119,859	\$	60,411	\$	3,879,769	100.0%

				R	Recorded Investment		
		De	ebt Service Ratios				
	>1.20x	>1.20x 1.00x - 1.20x			<1.00x	Total	% of Total
December 31, 2016:							
Loan-to-Value Ratio							
0% - 59.99%	\$ 1,859,640	\$	64,749	\$	1,366	\$ 1,925,755	50.8%
60% - 69.99%	1,257,788		34,678		_	1,292,466	34.2
70% - 79.99%	370,092		20,869		24,369	415,330	11.0
Greater than 80%	 114,297				35,359	149,656	4.0
Total	\$ 3,601,817	\$	120,296	\$	61,094	\$ 3,783,207	100.0%

None of the payments due to the Company on its recorded investment in mortgage loans were delinquent as of March 31, 2017 and December 31, 2016.

The following table presents the recorded investment in mortgage loans, by method of measuring impairment, and the related valuation allowances as of March 31, 2017 and December 31, 2016 (dollars in thousands):

	Ma	rch 31, 2017	December 31, 2016
Mortgage loans:			
Individually measured for impairment	\$	2,099	\$ 2,216
Collectively measured for impairment		3,877,670	 3,780,991
Recorded investment	\$	3,879,769	\$ 3,783,207
Valuation allowances:			
Individually measured for impairment	\$		\$ _
Collectively measured for impairment		7,786	7,685
Total valuation allowances	\$	7,786	\$ 7,685

Information regarding the Company's loan valuation allowances for mortgage loans for the three months ended March 31, 2017 and 2016 is as follows (dollars in thousands):

		arch 31,		
		2017		2016
Balance, beginning of period	\$	7,685	\$	6,813
Provision (release)		101		11
Balance, end of period	\$	7,786	\$	6,824

Information regarding the portion of the Company's mortgage loans that were impaired as of March 31, 2017 and December 31, 2016 is as follows (dollars in thousands):

	Unpaid Principal Balance		Recorded Investment		Related Allowance		Carrying Value	
March 31, 2017:								
Impaired mortgage loans with no valuation allowance recorded	\$	2,641	\$	2,099	\$	—	\$	2,099
Impaired mortgage loans with valuation allowance recorded		_				_		_
Total impaired mortgage loans	\$	2,641	\$	2,099	\$		\$	2,099
December 31, 2016:								
Impaired mortgage loans with no valuation allowance recorded	\$	2,758	\$	2,216	\$	_	\$	2,216
Impaired mortgage loans with valuation allowance recorded		—		_		_		_
Total impaired mortgage loans	\$	2,758	\$	2,216	\$	_	\$	2,216

The Company's average investment balance of impaired mortgage loans and the related interest income are reflected in the table below for the periods indicated (dollars in thousands):

			Three months e	nded	March 31,		
	20	017			20	016	
	 Average Recorded Investment ⁽¹⁾		Interest Income		Average Recorded Investment ⁽¹⁾		Interest Income
Impaired mortgage loans with no valuation allowance recorded	\$ 2,157	\$	33	\$	2,421	\$	12
Impaired mortgage loans with valuation allowance recorded	_				10,918		144
Total impaired mortgage loans	\$ 2,157	\$	33	\$	13,339	\$	156

(1) Average recorded investment represents the average loan balances as of the beginning of period and all subsequent quarterly end of period balances.

The Company did not acquire any impaired mortgage loans during the three months ended March 31, 2017 and 2016. The Company had no mortgage loans that were on a nonaccrual status at March 31, 2017 and December 31, 2016.

Policy Loans

Policy loans comprised approximately 3.1% and 3.2% of the Company's total investments as of March 31, 2017 and December 31, 2016, respectively, the majority of which are associated with one client. These policy loans present no credit risk because the amount of the loan cannot exceed the obligation due to the ceding company upon the death of the insured or surrender of the underlying policy. The provisions of the treaties in force and the underlying policies determine the policy loan interest rates. The Company earns a spread between the interest rate earned on policy loans and the interest rate credited to corresponding liabilities.

Funds Withheld at Interest

Funds withheld at interest comprised approximately 13.1% of the Company's total investments for both March 31, 2017 and December 31, 2016. Of the \$5.9 billion funds withheld at interest balance, net of embedded derivatives, as of March 31, 2017, \$4.1 billion of the balance is associated with one client. For reinsurance agreements written on a modified coinsurance basis and certain agreements written on a coinsurance funds withheld basis, assets equal to the net statutory reserves are withheld and legally owned and managed by the ceding company and are reflected as funds withheld at interest on the Company's condensed consolidated balance sheets. In the event of a ceding company's insolvency, the Company would need to assert a claim on the assets supporting its reserve liabilities. However, the risk of loss to the Company is mitigated by its ability to offset amounts it owes the ceding company for claims or allowances against amounts owed to the Company from the ceding company.

Other Invested Assets

Other invested assets include equity securities, limited partnership interests, joint ventures (other than operating joint ventures), derivative contracts and fair value option ("FVO") contractholder-directed unit-linked investments. Other invested assets also

include Federal Home Loan Bank of Des Moines ("FHLB") common stock, real estate held-for-investment, equity release mortgages and structured loans, all of which are included in other in the table below. The fair value option was elected for contractholder-directed investments supporting unit-linked variable annuity type liabilities which do not qualify for presentation and reporting as separate accounts. Other invested assets represented approximately 3.1% and 3.6% of the Company's total investments as of March 31, 2017 and December 31, 2016, respectively. Carrying values of these assets as of March 31, 2017 and December 31, 2016 are as follows (dollars in thousands):

	March 31, 2017	December 31, 2016
Equity securities	\$ 111,616	\$ 275,361
Limited partnership interests and real estate joint ventures	706,143	687,522
Derivatives	170,183	229,108
FVO contractholder-directed unit-linked investments	193,600	190,120
Other	 247,633	 209,829
Total other invested assets	\$ 1,429,175	\$ 1,591,940

5. Derivative Instruments

Derivatives, except for embedded derivatives and longevity and mortality swaps, are carried on the Company's condensed consolidated balance sheets in other invested assets or other liabilities, at fair value. Longevity and mortality swaps are included on the condensed consolidated balance sheets in other assets or other liabilities, at fair value. Embedded derivative assets and liabilities on modified coinsurance or funds withheld arrangements are included on the condensed consolidated balance sheets with the host contract in funds withheld at interest, at fair value. Embedded derivative liabilities on indexed annuity and variable annuity products are included on the condensed consolidated balance sheets with the host contract liabilities, at fair value. The following table presents the notional amounts and gross fair value of derivative instruments prior to taking into account the netting effects of master netting agreements as of March 31, 2017 and December 31, 2016 (dollars in thousands):

	March 31, 2017						December 31, 2016					
		Notional		Carrying Val	lue/Fa	air Value	Notional			Carrying Va	alue/F	air Value
		Amount		Assets Liabilities		Amount			Assets		Liabilities	
Derivatives not designated as hedging instruments:												
Interest rate swaps	\$	956,480	\$	59,926	\$	763	\$	949,556	\$	78,405	\$	5,949
Financial futures		466,519		_		_		475,968		_		
Foreign currency forwards		25,000		142		3,380		25,000		_		5,070
Consumer price index swaps		21,819		_		244		20,615		_		262
Credit default swaps		935,000		6,507		714		926,000		12,012		2,871
Equity options		570,713		26,439		_		525,894		33,459		_
Longevity swaps		852,160		29,170		_		841,360		26,958		_
Mortality swaps		50,000		_		2,857		50,000		_		2,462
Synthetic guaranteed investment contracts		8,971,610		_		_		8,834,700		_		_
Embedded derivatives in:												
Modified coinsurance or funds withheld arrangements		_		46,173		_		_				22,529
Indexed annuity products		_		_		810,657		_		_		805,672
Variable annuity products				_		162,273		_		_		184,636
Total non-hedging derivatives		12,849,301		168,357		980,888		12,649,093		150,834		1,029,451
Derivatives designated as hedging instruments:												
Interest rate swaps		435,000				23,854		435,000		27,901		31,223
Foreign currency swaps		977,958		100,243		2,583		928,505		104,359		734
Total hedging derivatives		1,412,958		100,243		26,437		1,363,505		132,260		31,957
Total derivatives	\$	14,262,259	\$	268,600	\$	1,007,325	\$	14,012,598	\$	283,094	\$	1,061,408

Netting Arrangements

Certain of the Company's derivatives are subject to enforceable master netting arrangements and reported as a net asset or liability in the condensed consolidated balance sheets. The Company nets all derivatives that are subject to such arrangements.

The Company has elected to include all derivatives, except embedded derivatives, in the tables below, irrespective of whether they are subject to an enforceable master netting arrangement or a similar agreement. See Note 4 – "Investments" for information regarding the Company's securities borrowing, lending, repurchase and repurchase/reverse repurchase programs. See "Embedded Derivatives" below for information regarding the Company's bifurcated embedded derivatives.

The following table provides information relating to the Company's derivative instruments as of March 31, 2017 and December 31, 2016 (dollars in thousands):

						Gross Amounts Not Offset in the Balance Sheet					
	Gross Amounts Recognized		Gross Amounts Offset in the Balance Sheet		Net Amounts Presented in the Balance Sheet		Financial astruments ⁽¹⁾	Cash Collateral Pledged/ Received			Net Amount
March 31, 2017:											
Derivative assets	\$ 222,427	\$	(23,074)	\$	199,353	\$	(18,439)	\$	(194,125)	\$	(13,211)
Derivative liabilities	34,395		(23,074)		11,321		(76,173)		(1,111)		(65,963)
December 31, 2016:											
Derivative assets	\$ 283,094	\$	(27,028)	\$	256,066	\$	(16,913)	\$	(254,498)	\$	(15,345)
Derivative liabilities	48,571		(27,028)		21,543		(95,863)		(1,441)		(75,761)

(1) Includes initial margin posted to a central clearing partner.

Accounting for Derivative Instruments and Hedging Activities

The Company does not enter into derivative instruments for speculative purposes. As discussed below under "Non-qualifying Derivatives and Derivatives for Purposes Other Than Hedging," the Company uses various derivative instruments for risk management purposes that either do not qualify or have not been qualified for hedge accounting treatment. As of March 31, 2017 and December 31, 2016, the Company held interest rate swaps that were designated and qualified as cash flow hedges of interest rate risk, for variable rate liabilities and foreign currency assets, foreign currency swaps that were designated and qualified as hedges of a portion of its net investment in its foreign operations, foreign currency swaps that were designated and qualified as fair value hedges of foreign currency risk, and derivative instruments that were not designated as hedging instruments. See Note 2 – "Summary of Significant Accounting Policies" of the Company's 2016 Annual Report for a detailed discussion of the accounting treatment for derivative instruments, including embedded derivatives. Derivative instruments are carried at fair value and generally require an insignificant amount of cash at inception of the contracts.

Fair Value Hedges

The Company designates and reports certain foreign currency swaps to hedge the foreign currency fair value exposure of foreign currency denominated assets as fair value hedges when they meet the requirements of the general accounting principles for *Derivatives and Hedging*. The gain or loss on the hedged item attributable to a change in foreign currency and the offsetting gain or loss on the related foreign currency swaps as of March 31, 2017 and 2016, were (dollars in thousands):

Type of Fair Value Hedge For the three months ended		sses) Recognized Derivatives	ns (Losses) zed for Hedged Items	Ineffectiveness Recognized in Investment Related Gains (Losses)		
Foreign currency swaps	Foreign-denominated fixed maturity securities	\$ 6,536	\$ (6,536)	\$	_	
For the three months ended	March 31, 2016:					
Foreign currency swaps	Foreign-denominated fixed maturity securities	\$ 5,867	\$ (5,867)	\$		

A regression analysis was used, both at inception of the hedge and on an ongoing basis, to determine whether each derivative used in a hedged transaction is highly effective in offsetting changes in the hedged item. For the foreign currency swaps, the change in fair value related to changes in the benchmark interest rate and credit spreads are excluded from the hedge effectiveness. For the three months ended March 31, 2017 and 2016, \$1.0 million and \$4.6 million, respectively, of the change in the estimated fair value of derivatives, was excluded from hedge effectiveness.

Cash Flow Hedges

Certain derivative instruments are designated as cash flow hedges when they meet the requirements of the general accounting principles for Derivatives and Hedging. The Company designates and accounts for the following as cash flows: (i) certain interest rate swaps, in which the cash flows of liabilities are variable based on a benchmark rate; (ii) certain interest rate swaps, in which the cash flows of assets are denominated in different currencies, commonly referred to as cross-currency swaps; and (iii) forward bond purchase commitments.

The following table presents the components of AOCI, before income tax, and the condensed consolidated income statement classification where the gain or loss is recognized related to cash flow hedges for the three months ended March 31, 2017 and 2016 (dollars in thousands):

	 Three months ended March 31,				
	2017		2016		
Balance beginning of period	\$ (2,496)	\$	(29,397)		
Gains (losses) deferred in other comprehensive income (loss) on the effective portion of cash flow hedges	10,433		8,551		
Amounts reclassified to investment related (gains) losses, net	_		(841)		
Amounts reclassified to investment income	(247)		(107)		
Balance end of period	\$ 7,690	\$	(21,794)		

As of March 31, 2017, the before-tax deferred net gains (losses) on derivative instruments recorded in AOCI that are expected to be reclassified to earnings during the next twelve months are approximately \$0.2 million. This expectation is based on the anticipated interest payments on hedged investments in fixed maturity securities that will occur over the next twelve months, at which time the Company will recognize the deferred net gains (losses) as an adjustment to investment income over the term of the investment cash flows.

The following table presents the effective portion of derivatives in cash flow hedging relationships on the condensed consolidated statements of income and the condensed consolidated statements of comprehensive income for the three months ended March 31, 2017 and 2016 (dollars in thousands):

	Effective Portion									
Derivative Type	Gain (Loss) Deferred in AOCI			Gain (Loss) Reclassified into Income from AOCI						
For the three months ended March 31, 2017:			Investment R (Los			Investment Income				
Interest rate	\$	2,216	\$	_	\$	_				
Currency/Interest rate		8,217		—		197				
Forward bond purchase commitments		_		_		50				
Total	\$	10,433	\$	_	\$	247				
For the three months ended March 31, 2016:										
Interest rate	\$	5,129	\$	—	\$	—				
Currency/Interest rate		3,422		_		160				
Forward bond purchase commitments		_		841		(53)				
Total	\$	8,551	\$	841	\$	107				

All components of each derivative's gain or loss were included in the assessment of hedge effectiveness. For the three months ended March 31, 2017 and 2016, the ineffective portion of derivatives reported as cash flow hedges was not material to the Company's results of operations. Also, there were no material amounts reclassified into earnings relating to instances in which the Company discontinued cash flow hedge accounting because the forecasted transaction did not occur by the anticipated date or within the additional time period permitted by the authoritative guidance for the accounting for derivatives and hedging.

Hedges of Net Investments in Foreign Operations

The Company uses foreign currency swaps to hedge a portion of its net investment in certain foreign operations against adverse movements in exchange rates. The following table illustrates the Company's net investments in foreign operations ("NIFO") hedges for the three months ended March 31, 2017 and 2016 (dollars in thousands):

	Der	Derivative Gains (Losses) Deferred in AOCI			
	For the three months ended March 31,				
Type of NIFO Hedge (1) (2)		2017		2016	
Foreign currency swaps	\$	(7,606)	\$	(31,794)	

(1) There were no sales or substantial liquidations of net investments in foreign operations that would have required the reclassification of gains or losses from accumulated other comprehensive income (loss) into investment income during the periods presented.

(2) There was no ineffectiveness recognized for the Company's hedges of net investments in foreign operations.

The cumulative foreign currency translation gain recorded in AOCI related to these hedges was \$154.0 million and \$161.6 million at March 31, 2017 and December 31, 2016, respectively. If a foreign operation was sold or substantially liquidated, the amounts in AOCI would be reclassified to the condensed consolidated statements of income. A pro rata portion would be reclassified upon partial sale of a foreign operation.

Non-qualifying Derivatives and Derivatives for Purposes Other Than Hedging

The Company uses various other derivative instruments for risk management purposes that either do not qualify or have not been qualified for hedge accounting treatment. The gain or loss related to the change in fair value for these derivative instruments is recognized in investment related gains (losses), net in the condensed consolidated statements of income, except where otherwise noted.

A summary of the effect of non-hedging derivatives, including embedded derivatives, on the Company's condensed consolidated statements of income for the three months ended March 31, 2017 and 2016 is as follows (dollars in thousands):

		Gain (Loss) for th	onths ended	
Type of Non-hedging Derivative	Income Statement Location of Gain (Loss)	2017		2016
Interest rate swaps	Investment related gains (losses), net	\$ (2,61	2) \$	62,527
Financial futures	Investment related gains (losses), net	(12,77	5)	(11,051)
Foreign currency forwards	Investment related gains (losses), net	90	4	2,500
CPI swaps	Investment related gains (losses), net	(5)	(180)
Credit default swaps	Investment related gains (losses), net	7,35	8	3,346
Equity options	Investment related gains (losses), net	(17,18	9)	(2,703)
Longevity swaps	Other revenues	1,86	5	87
Mortality swaps	Other revenues	(39	5)	(424)
Subtotal		(22,84	9)	54,102
Embedded derivatives in:				
Modified coinsurance or funds withheld arrangements	Investment related gains (losses), net	68,70	2	(92,250)
Indexed annuity products	Interest credited	(16,40	2)	1,394
Variable annuity products	Investment related gains (losses), net	22,36	3	(62,940)
Total non-hedging derivatives		\$ 51,81		(99,694)

Types of Derivatives Used by the Company

Interest Rate Swaps

Interest rate swaps are used by the Company primarily to reduce market risks from changes in interest rates, to alter interest rate exposure arising from mismatches between assets and liabilities (duration mismatches) and to manage the risk of cash flows of liabilities that are variable based on a benchmark rate. With an interest rate swap, the Company agrees with another party to exchange, at specified intervals, the difference between two rates, which can be either fixed-rate or floating-rate interest amounts, tied to an agreed-upon notional principal amount. These transactions are executed pursuant to master agreements that provide for a single net payment or individual gross payments at each due date. The Company utilizes interest rate swaps in cash flow and non-qualifying hedging relationships.

Financial Futures

Exchange-traded futures are used primarily to economically hedge liabilities embedded in certain variable annuity products. With exchange-traded futures transactions, the Company agrees to purchase or sell a specified number of contracts, the value of which is determined by the relevant indices, and to post variation margin on a daily basis in an amount equal to the difference between the daily estimated fair values of those contracts. The Company enters into exchange-traded futures with regulated futures commission merchants that are members of the exchange.

Equity Options

Equity index options are used by the Company primarily to hedge minimum guarantees embedded in certain variable annuity products. To hedge against adverse changes in equity indices volatility, the Company buys put options. The contracts are net settled in cash based on differentials in the indices at the time of exercise and the strike price. Equity warrants are also used by the Company to economically hedge the variability in anticipated cash flows for the acquisition of investment securities.



Consumer Price Index Swaps

Consumer price index ("CPI") swaps are used by the Company primarily to economically hedge liabilities embedded in certain insurance products where value is directly affected by changes in a designated benchmark consumer price index. With a CPI swap transaction, the Company agrees with another party to exchange the actual amount of inflation realized over a specified period of time for a fixed amount of inflation determined at inception. These transactions are executed pursuant to master agreements that provide for a single net payment or individual gross payments to be made by the counterparty at each due date. Most of these swaps will require a single payment to be made by one counterparty at the maturity date of the swap.

Foreign Currency Swaps

Foreign currency swaps are used by the Company to reduce the risk from fluctuations in foreign currency exchange rates associated with its assets and liabilities denominated in foreign currencies. With a foreign currency swap transaction, the Company agrees with another party to exchange, at specified intervals, the difference between one currency and another at a forward exchange rate calculated by reference to an agreed upon principal amount. The principal amount of each currency is exchanged at the termination of the currency swap by each party.

Foreign Currency Forwards

Foreign currency forwards are used by the Company to reduce the risk from fluctuations in foreign currency exchange rates associated with its assets and liabilities denominated in foreign currencies. With a foreign currency forward transaction, the Company agrees with another party to deliver a specified amount of an identified currency at a specified future date. The price is agreed upon at the time of the contract and payment for such a contract is made in a different currency at the specified future date.

Forward Bond Purchase Commitments

Forward bond purchase commitments have been used by the Company to hedge against the variability in the anticipated cash flows required to purchase securities. With forward bond purchase commitments, the forward price is agreed upon at the time of the contract and payment for such contract is made at the future specified settlement date of the securities.

Credit Default Swaps

The Company sells protection under single name credit default swaps and credit default swap index tranches to diversify its credit risk exposure in certain portfolios and, in combination with purchasing securities, to replicate characteristics of similar investments based on the credit quality and term of the credit default swap. Credit default triggers for indexed reference entities and single name reference entities are defined in the contracts. The Company's maximum exposure to credit loss equals the notional value for credit default swaps. In the event of default of a referencing entity, the Company is typically required to pay the protection holder the full notional value less a recovery amount determined at auction.

The following table presents the estimated fair value, maximum amount of future payments and weighted average years to maturity of credit default swaps sold by the Company at March 31, 2017 and December 31, 2016 (dollars in thousands):

			N	March 31, 2017		December 31, 2016							
Rating Agency Designation of Referenced Credit Obligations(1)	Va	stimated Fair lue of Credit efault Swaps		Maximum Amount of Future Payments under Credit Default Swaps ⁽²⁾	Weighted Average Years to Maturity ⁽³⁾	Estimated Fair Value of Credit Default Swaps		redit Credit Defa		Weighted Average Years to Maturity ⁽³⁾			
Single name credit default swaps	\$	2,704	\$	155,500	3.6	\$	1,726	\$	150,500	3.8			
Subtotal		2,704		155,500	3.6		1,726		150,500	3.8			
BBB+/BBB/BBB-													
Single name credit default swaps		2,822		355,200	3.5		1,426		347,200	3.7			
Credit default swaps referencing indices		126		416,000	4.7		6,295		416,000	5.0			
Subtotal		2,948		771,200	4.2		7,721		763,200	4.4			
BB+/BB/BB-													
Single name credit default swaps		9		5,000	2.2		(477)		9,000	3.5			
Subtotal		9		5,000	2.2		(477)		9,000	3.5			
Total	\$	5,661	\$	931,700	4.1	\$	8,970	\$	922,700	4.3			

(1) The rating agency designations are based on ratings from Standard and Poor's ("S&P").

(2) Assumes the value of the referenced credit obligations is zero.

(3) The weighted average years to maturity of the credit default swaps is calculated based on weighted average notional amounts.

The Company also purchases credit default swaps to reduce its risk against a drop in bond prices due to credit concerns of certain bond issuers. If a credit event, as defined by the contract, occurs, the Company is able to put the bond back to the counterparty at par.

Longevity Swaps

The Company enters into longevity swaps in the form of out-of-the-money options, which provide protection against changes in mortality improvement to retirement plans and insurers of such plans. With a longevity swap transaction, the Company agrees with another party to exchange a proportion of a notional value. The proportion is determined by the difference between a predefined benefit, and the realized benefit plus the future expected benefit, calculated by reference to a population index for a fixed premium.

Mortality Swaps

Mortality swaps are used by the Company to hedge risk from changes in mortality experience associated with its reinsurance of life insurance risk. The Company agrees with another party to exchange, at specified intervals, a proportion of a notional value determined by the difference between a predefined expected and realized claim amount on a designated index of reinsured lives, for a fixed percentage (premium) each term.

Synthetic Guaranteed Investment Contracts

The Company sells fee-based synthetic guaranteed investment contracts to retirement plans which include investment-only, stable value contracts. The assets are owned by the trustees of such plans, who invest the assets under the terms of investment guidelines to which the Company agrees. The contracts contain a guarantee of a minimum rate of return on participant balances supported by the underlying assets, and a guarantee of liquidity to meet certain participant-initiated plan cash flow requirements. These contracts are reported as derivatives, recorded at fair value and classified as interest rate derivatives.

Embedded Derivatives

The Company has certain embedded derivatives which are required to be separated from their host contracts and reported as derivatives. Host contracts include reinsurance treaties structured on a modified coinsurance ("modco") or funds withheld basis. Additionally, the Company reinsures equity-indexed annuity and variable annuity contracts with benefits that are considered embedded derivatives, including guaranteed minimum withdrawal benefits, guaranteed minimum accumulation benefits, and guaranteed minimum income benefits. The changes in fair values of embedded derivatives on equity-indexed annuities described below relate to changes in the fair value associated with capital market and other related assumptions. The Company's utilization of a credit valuation adjustment ("CVA") did not have a material effect on the change in fair value of its embedded derivatives for the three months ended March 31, 2017 and 2016.

The related gains (losses) and the effect on net income after amortization of deferred acquisition costs ("DAC") and income taxes for the three months ended March 31, 2017 and 2016 are reflected in the following table (dollars in thousands):

	 Three months e	arch 31,	
	2017		2016
Embedded derivatives in modco or funds withheld arrangements included in investment related gains	\$ 68,702	\$	(92,250)
After the associated amortization of DAC and taxes, the related amounts included in net income	25,844		(26,777)
Embedded derivatives in variable annuity contracts included in investment related gains	22,363		(62,940)
After the associated amortization of DAC and taxes, the related amounts included in net income	28,836		(25,843)
Amounts related to embedded derivatives in equity-indexed annuities included in benefits and expenses	(16,402)		1,394
After the associated amortization of DAC and taxes, the related amounts included in net income	(21,396)		11,234

Credit Risk

The Company manages its credit risk related to over-the-counter ("OTC") derivatives by entering into transactions with creditworthy counterparties, maintaining collateral arrangements and through the use of master netting agreements that provide for a single net payment to be made by one counterparty to another at each due date and upon termination.

The credit exposure of the Company's OTC derivative transactions is represented by the contracts with a positive fair value (market value) at the reporting date. To reduce credit exposures, the Company seeks to (i) enter into OTC derivative transactions pursuant to master netting agreements that provide for a netting of payments and receipts with a single counterparty, and (ii) enter into agreements that allow the use of credit support annexes, which are bilateral rating-sensitive agreements that require collateral postings at established threshold levels. Certain of the Company's OTC derivatives are cleared derivatives, which are bilateral transactions between the Company and a counterparty where the transactions are cleared through a clearinghouse, such that each derivative counterparty is only exposed to the default of the clearinghouse. These cleared transactions require initial and daily variation margin collateral postings and include certain interest rate swaps and credit default swaps entered into on or after June

10, 2013, related to guidelines implemented under the Dodd-Frank Wall Street Reform and Consumer Protection Act. Also, the Company enters into exchange-traded futures through regulated exchanges and these transactions are settled on a daily basis, thereby reducing credit risk exposure in the event of non-performance by counterparties to such financial instruments.

The Company enters into various collateral arrangements, which require both the posting and accepting of collateral in connection with its derivative instruments. Collateral agreements contain attachment thresholds that may vary depending on the posting party's ratings. Additionally, a decline in the Company's or the counterparty's credit ratings to specified levels could result in potential settlement of the derivative positions under the Company's agreements with its counterparties. The Company also has exchange-traded futures, which require the maintenance of a margin account. As exchange-traded futures are affected through regulated exchanges, and positions are marked to market on a daily basis, the Company has minimal exposure to credit-related losses in the event of nonperformance by counterparties.

The Company's credit exposure related to derivative contracts is generally limited to the fair value at the reporting date plus or minus any collateral posted or held by the Company. The Company's credit exposure to mortality swaps is minimal, as they are fully collateralized by a counterparty. Information regarding the Company's credit exposure related to its over-the-counter derivative contracts, centrally cleared derivative contracts and margin account for exchange-traded futures, excluding mortality swaps, at March 31, 2017 and December 31, 2016 are reflected in the following table (dollars in thousands):

	March 31, 2017	December 31, 2016
Estimated fair value of derivatives in net asset position	\$ 190,889	\$ 236,985
Cash provided as collateral ⁽¹⁾	1,111	1,441
Securities pledged to counterparties as collateral ⁽²⁾	76,173	95,863
Cash pledged from counterparties as collateral ⁽³⁾	(194,125)	(254,498)
Securities pledged from counterparties as collateral ⁽⁴⁾	(18,439)	(16,913)
Initial margin for cleared derivatives ⁽²⁾	(66,063)	(73,571)
Net amount after application of master netting agreements and collateral	\$ (10,454)	\$ (10,693)
Margin account related to exchange-traded futures ⁽⁵⁾	\$ 9,474	\$ 9,687

(1) Consists of receivable from counterparty, included in other assets.

(2) Included in available-for-sale securities, primarily consists of U.S. Treasury and government agency securities.

(3) Included in cash and cash equivalents, with obligation to return cash collateral recorded in other liabilities.

(4) Consists of U.S. Treasury and government securities.

(5) Included in other assets.

6. Fair Value of Assets and Liabilities

Fair Value Measurement

General accounting principles for *Fair Value Measurements and Disclosures* define fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. These principles also establish a fair value hierarchy which requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value and describes three levels of inputs that may be used to measure fair value:

Level 1 - Unadjusted quoted prices in active markets for identical assets or liabilities. The Company's Level 1 assets and liabilities are traded in active exchange markets.

Level 2 - Observable inputs other than Level 1 prices such as quoted prices for similar assets or liabilities; quoted prices in markets that are not active; or market standard valuation techniques and assumptions that use significant inputs that are observable or can be corroborated by observable market data for substantially the full term of the assets or liabilities.

Level 3 - Unobservable inputs that are supported by little or no market activity and that are significant to the fair value of the related assets or liabilities. Prices are determined using valuation methodologies such as discounted cash flow models and other similar techniques that require management's judgment or estimation in developing inputs that are consistent with those other market participants would use when pricing similar assets and liabilities. Additionally, the Company's embedded derivatives, all of which are associated with reinsurance treaties and longevity and mortality swaps, are classified in Level 3 since their values include significant unobservable inputs.

When inputs used to measure the fair value of an asset or liability fall within different levels of the hierarchy, the level within which the fair value measurement is categorized is based on the lowest level input that is significant to the fair value measurement in its entirety, except for fair value measurements using net asset value. For example, a Level 3 fair value measurement may include inputs that are observable (Levels 1 and 2) and unobservable (Level 3). Therefore, gains and losses for such assets and liabilities categorized within Level 3 may include changes in fair value that are attributable to both observable inputs (Levels 1 and 2) and unobservable inputs (Level 3).

Assets and Liabilities by Hierarchy Level

Assets and liabilities measured at fair value on a recurring basis as of March 31, 2017 and December 31, 2016 are summarized below (dollars in thousands):

March 31, 2017:		Total		Level 1		ue Measurements Usi Level 2	Level 3		
Assets:		10tal		Level 1		Level 2		Level 3	
Fixed maturity securities – available-for-sale:									
Corporate securities	¢	20.101.452	¢	426 027	¢	10 470 001	¢	1 202 025	
Canadian and Canadian provincial governments	\$	20,161,453	\$	426,837	\$	18,470,691	\$	1,263,925	
Residential mortgage-backed securities		3,720,364 1,303,877				3,236,804		483,560 143,430	
Asset-backed securities		1,380,590				1,160,447 1,172,154		208,436	
Commercial mortgage-backed securities		1,289,338				1,287,415		1,923	
U.S. government and agencies		1,482,452		1,360,357		98,621		23,474	
State and political subdivisions		595,457				561,599		33,858	
Other foreign government supranational and foreign government- sponsored enterprises		2,761,262		313,644		2,435,274		12,344	
Total fixed maturity securities – available-for-sale		32,694,793		2,100,838		28,423,005		2,170,950	
Funds withheld at interest – embedded derivatives		46,173		_		_		46,173	
Cash equivalents		367,562		367,562		_		_	
Short-term investments		24,929		1,615		20,038		3,276	
Other invested assets:									
Non-redeemable preferred stock		31,215		31,215		_		_	
Other equity securities		80,401		80,401		_		_	
Derivatives:									
Interest rate swaps		50,011		_		50,011			
Foreign currency forwards		139		_		139		_	
Credit default swaps		5,128		_		5,128		_	
Equity options		17,245		_		17,245		_	
Foreign currency swaps		97,660		_		97,660		_	
FVO contractholder-directed unit-linked investments		193,600		192,266		1,334		_	
Other		8,192		8,192		_		_	
Total other invested assets		483,591		312,074		171,517		_	
Other assets - longevity swaps	-	29,170		_		_		29,170	
Total	\$	33,646,218	\$	2,782,089	\$	28,614,560	\$	2,249,569	
iabilities:									
Interest sensitive contract liabilities – embedded derivatives	\$	972,930	\$	_	\$		\$	972,930	
Other liabilities:									
Derivatives:									
Interest rate swaps		14,702		_		14,702		_	
Foreign currency forwards		3,377				3,377		_	
CPI swaps		244		_		244		_	
Credit default swaps		(665)				(665)		_	
Equity options		(9,194)		_		(9,194)			
Mortality swaps		2,857						2,857	
Total	\$	984,251	\$	_	\$	8,464	\$	975,787	

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December 31, 2016:			Fair Value Measurements Using:									
		Total		Level 1		Level 2		Level 3				
Assets:												
Fixed maturity securities – available-for-sale:												
Corporate securities	\$	19,619,084	\$	310,995	\$	18,035,836	\$	1,272,253				
Canadian and Canadian provincial governments		3,644,046		_		3,168,081		475,965				
Residential mortgage-backed securities		1,278,576		_		1,118,285		160,291				
Asset-backed securities		1,429,344		_		1,210,064		219,280				
Commercial mortgage-backed securities		1,363,654		_		1,342,509		21,145				
U.S. government and agencies		1,468,302		1,345,755		98,059		24,488				
State and political subdivisions		591,796				550,130		41,666				
Other foreign government, supranational and foreign government-sponsored enterprises		2,698,823		276,729		2,409,225		12,869				
Total fixed maturity securities – available-for-sale		32,093,625		1,933,479		27,932,189		2,227,957				
Funds withheld at interest – embedded derivatives		(22,529)		_		_		(22,529				
Cash equivalents		338,601		338,601		_		_				
Short-term investments		44,241		8,276		32,619		3,346				
Other invested assets:												
Non-redeemable preferred stock		51,123		38,317		12,806						
Other equity securities		224,238		224,238		_		_				
Derivatives:												
Interest rate swaps		93,508		_		93,508						
Credit default swaps		9,136		_		9,136		_				
Equity options		26,070		_		26,070		_				
Foreign currency swaps		100,394		_		100,394						
FVO contractholder-directed unit-linked investments		190,120		188,891		1,229		_				
Other		11,036		11,036		_		_				
Total other invested assets		705,625		462,482		243,143		_				
Other assets - longevity swaps		26,958		_		_		26,958				
Total	\$	33,186,521	\$	2,742,838	\$	28,207,951	\$	2,235,732				
Liabilities:												
Interest sensitive contract liabilities – embedded derivatives	\$	990,308	\$	_	\$	_	\$	990,308				
Other liabilities:	·											
Derivatives:												
Interest rate swaps		24,374		_		24,374		_				
Foreign currency forwards		5,070				5,070						
CPI swaps		262		_		262		_				
Credit default swaps		(5)				(5)						
Equity options		(7,389)				(7,389)						
Foreign currency swaps		(3,231)				(3,231)						
Mortality swaps		2,462		_		(0,201)		2,462				
Total	\$	1,011,851	\$		\$	19,081	\$	992,770				

The Company may utilize information from third parties, such as pricing services and brokers, to assist in determining the fair value for certain assets and liabilities; however, management is ultimately responsible for all fair values presented in the Company's condensed consolidated financial statements. This includes responsibility for monitoring the fair value process, ensuring objective and reliable valuation practices and pricing of assets and liabilities, and approving changes to valuation methodologies and pricing sources. The selection of the valuation technique(s) to apply considers the definition of an exit price and the nature of the asset or liability being valued and significant expertise and judgment is required.

The Company performs initial and ongoing analysis and review of the various techniques utilized in determining fair value to ensure that they are appropriate and consistently applied, and that the various assumptions are reasonable. The Company analyzes and reviews the information and prices received from third parties to ensure that the prices represent a reasonable estimate of the fair value and to monitor controls around pricing, which includes quantitative and qualitative analysis and is overseen by the Company's investment and accounting personnel. Examples of procedures performed include, but are not limited to, review of pricing trends, comparison of a sample of executed prices of securities sold to the fair value estimates, comparison of fair value estimates to management's knowledge of the current market, and ongoing confirmation that third party pricing services use, wherever possible, market-based parameters for valuation. In addition, the Company utilizes both internal and external cash flow models to analyze the reasonableness of fair value sutilizing credit spread and other market assumptions, where appropriate. As a result of the analysis, if the Company determines there is a more appropriate fair value based upon the available market data, the price received from the third party is adjusted accordingly. The Company also determines if the inputs used in estimated fair values received from pricing services are observable by assessing whether these inputs can be corroborated by observable market data.

For assets and liabilities reported at fair value, the Company utilizes, when available, fair values based on quoted prices in active markets that are regularly and readily obtainable. Generally, these are very liquid investments and the valuation does not require management judgment. When quoted prices in active markets are not available, fair value is based on market valuation techniques, market comparable pricing and the income approach. The use of different techniques, assumptions and inputs may have a material effect on the estimated fair values of the Company's securities holdings. For the periods presented, the application of market standard valuation techniques applied to similar assets and liabilities has been consistent.

The methods and assumptions the Company uses to estimate the fair value of assets and liabilities measured at fair value on a recurring basis are summarized below.

Fixed Maturity Securities – The fair values of the Company's publicly-traded fixed maturity securities are generally based on prices obtained from independent pricing services. Prices from pricing services are sourced from multiple vendors, and a vendor hierarchy is maintained by asset type based on historical pricing experience and vendor expertise. The Company generally receives prices from multiple pricing services for each security, but ultimately uses the price from the vendor that is highest in the hierarchy for the respective asset type. To validate reasonableness, prices are periodically reviewed as explained above. Consistent with the fair value hierarchy described above, securities with quotes from pricing services are generally reflected within Level 2, as they are primarily based on observable pricing for similar assets and/or other market observable inputs. If the pricing information received from third party pricing services is not reflective of market activity or other inputs observable in the market, the Company may challenge the price through a formal process with the pricing service.

If the Company ultimately concludes that pricing information received from the independent pricing service is not reflective of fair value, non-binding broker quotes are used, if available. If the Company concludes that the values from both pricing services and brokers are not reflective of fair value, an internally developed valuation may be prepared; however, this occurs infrequently. Internally developed valuations or non-binding broker quotes are also used to determine fair value in circumstances where vendor pricing is not available. These valuations may use significant unobservable inputs, which reflect the Company's assumptions about the inputs that market participants would use in pricing the asset. Observable market data may not be available in certain circumstances, such as market illiquidity and credit events related to the security. Pricing service overrides, internally developed valuations and non-binding broker quotes are generally based on significant unobservable inputs and are reflected as Level 3 in the valuation hierarchy.

The inputs used in the valuation of corporate and government securities include, but are not limited to standard market observable inputs which are derived from, or corroborated by, market observable data including market yield curve, duration, call provisions, observable prices and spreads for similar publicly traded or privately traded issues that incorporate the credit quality and industry sector of the issuer. For structured securities, valuation is based primarily on matrix pricing or other similar techniques using standard market inputs including spreads for actively traded securities, spreads off benchmark yields, expected prepayment speeds and volumes, current and forecasted loss severity, rating, weighted average coupon, weighted average maturity, average delinquency rates, geographic region, debt-service coverage ratios and issuance-specific information including, but not limited to: collateral type, payment terms of the underlying assets, payment priority within the tranche, structure of the security, deal performance and vintage of loans.

When observable inputs are not available, the market standard valuation techniques for determining the estimated fair value of certain types of securities that trade infrequently, and therefore have little or no price transparency, rely on inputs that are significant to the estimated fair value that are not observable in the market or cannot be derived principally from or corroborated by observable market data. These unobservable inputs can be based in large part on management judgment or estimation, and cannot be supported by reference to market activity. Even though unobservable, these inputs are based on assumptions deemed appropriate given the circumstances and are believed to be consistent with what other market participants would use when pricing such securities.

The fair values of private placement securities are primarily determined using a discounted cash flow model. In certain cases these models primarily use observable inputs with a discount rate based upon the average of spread surveys collected from private market intermediaries who are active in both primary and secondary transactions, taking into account, among other factors, the credit quality and industry sector of the issuer and the reduced liquidity associated with private placements. Generally, these securities have been reflected within Level 3. For certain private fixed maturities, the discounted cash flow model may also incorporate significant unobservable inputs, which reflect the Company's own assumptions about the inputs market participants would use in pricing the security. To the extent management determines that such unobservable inputs are not significant to the price of a security, a Level 2 classification is made. Otherwise, a Level 3 classification is used.

Embedded Derivatives – The fair value of embedded derivative liabilities, including those calculated by third parties, are monitored through the use of attribution reports to quantify the effect of underlying sources of fair value change, including capital market inputs based on policyholder account values, interest rates and short-term and long-term implied volatilities, from period to period. Actuarial assumptions are based on experience studies performed internally in combination with available industry information and are reviewed on a periodic basis, at least annually.

For embedded derivative liabilities associated with the underlying products in reinsurance treaties, primarily equity-indexed and variable annuity treaties, the Company utilizes a discounted cash flow model, which includes an estimate of future equity option purchases and an adjustment for a CVA. The variable annuity embedded derivative calculations are performed by third parties based on methodology and input assumptions provided by the Company. To validate the reasonableness of the resulting fair value, the Company's internal actuaries perform reviews and analytical procedures on the results. The capital market inputs to the model, such as equity indexes, short-term equity volatility and interest rates, are generally observable. The valuation also requires certain significant inputs, which are generally not observable and accordingly, the valuation is considered Level 3 in the fair value hierarchy, see "Level 3 Measurements and Transfers" below for a description.

The fair value of embedded derivatives associated with funds withheld reinsurance treaties is determined based upon a total return swap technique with reference to the fair value of the investments held by the ceding company that support the Company's funds withheld at interest asset with an adjustment for a CVA. The fair value of the underlying assets is generally based on market observable inputs using industry standard valuation techniques. The valuation also requires certain significant inputs, which are generally not observable and accordingly, the valuation is considered Level 3 in the fair value hierarchy, see "Level 3 Measurements and Transfers" below for a description.

Credit Valuation Adjustment – The Company uses a structural default risk model to estimate a CVA. The input assumptions are a combination of externally derived and published values (default threshold and uncertainty), market inputs (interest rate, equity price per share, debt per share, equity price volatility) and insurance industry data (Loss Given Default), adjusted for market recoverability.

Cash Equivalents and Short-Term Investments – Cash equivalents and short-term investments include money market instruments, commercial paper and other highly liquid debt instruments. Money market instruments are generally valued using unadjusted quoted prices in active markets that are accessible for identical assets and are primarily classified as Level 1. The fair value of certain other cash equivalents and short-term investments, such as floating rate notes and bonds with original maturities less than twelve months, are based upon other market observable data and are typically classified as Level 2. However, certain short-term investments may incorporate significant unobservable inputs resulting in a Level 3 classification. Various time deposits carried as cash equivalents or short-term investments are not measured at estimated fair value and therefore are excluded from the tables presented.

Equity Securities – Equity securities consist principally of exchange-traded funds and preferred stock of publicly and privately traded companies. The fair values of publicly traded equity securities are primarily based on quoted market prices in active markets and are classified within Level 1 in the fair value hierarchy. The fair values of preferred equity securities, for which quoted market prices are not readily available, are based on prices obtained from independent pricing services and these securities are generally classified within Level 2 in the fair value hierarchy. Non-binding broker quotes for equity securities are generally based on significant unobservable inputs and are reflected as Level 3 in the fair value hierarchy.

FVO Contractholder-Directed Unit-Linked Investments – FVO contractholder-directed investments supporting unit-linked variable annuity type liabilities primarily consist of exchange-traded funds and, to a lesser extent, fixed maturity securities and cash and cash equivalents. The fair values of the exchange-traded securities are primarily based on quoted market prices in active markets and are classified within Level 1 of the hierarchy. The fair value of the fixed maturity contractholder-directed securities is determined on a basis consistent with the methodologies described above for fixed maturity securities and are classified within Level 2 of the hierarchy.

Derivative Assets and Derivative Liabilities – All of the derivative instruments utilized by the Company, except for longevity and mortality swaps, are classified within Level 2 on the fair value hierarchy. These derivatives are principally valued using an income approach. Valuations of interest rate contracts are based on present value techniques, which utilize significant inputs that may include the swap yield curve, London Interbank Offered Rate ("LIBOR") basis curves, and repurchase rates. Valuations of foreign currency contracts, are based on present value techniques, which utilize significant inputs that may include the swap yield curve, LIBOR basis curves, currency spot rates, and cross currency basis curves. Valuations of credit contracts are based on present value techniques, which utilize significant inputs that may include the swap yield curve, spot equity index levels, which utilize significant inputs that may include the swap yield curve, spot equity index levels, dividend yield curves, and equity volatility. The Company does not currently have derivatives, except for longevity and mortality swaps, included in Level 3 measurement.

Longevity and Mortality Swaps – The Company utilizes a discounted cash flow model to estimate the fair value of longevity and mortality swaps. The fair value of these swaps includes an accrual for premiums payable and receivable. Some inputs to the valuation model are generally observable, such as interest rates and actual population mortality experience. The valuation also requires significant inputs that are generally not observable and, accordingly, the valuation is considered Level 3 in the fair value hierarchy.

Level 3 Measurements and Transfers

As of March 31, 2017 and December 31, 2016, the Company classified approximately 6.6% and 6.9%, respectively, of its fixed maturity securities in the Level 3 category. These securities primarily consist of private placement corporate securities and bank loans as well as Canadian provincial strips with inactive trading markets. Additionally, the Company has included asset-backed securities with subprime exposure and mortgage-backed securities with below investment grade ratings in the Level 3 category due to market uncertainty associated with these securities and the Company's utilization of unobservable information from third parties for the valuation of these securities.

The significant unobservable inputs used in the fair value measurement of the Company's corporate, sovereign, government-backed, and other political subdivision investments are probability of default, liquidity premium and subordination premium. Significant increases (decreases) in any of those inputs in isolation would result in a significantly lower (higher) fair value measurement. Generally, a change in the assumption used for the probability of default is accompanied by a directionally similar change in the assumptions used for the liquidity premium and subordination premium. For securities with a fair value derived using the market comparable pricing valuation technique, liquidity premium is the only significant unobservable input.

The significant unobservable inputs used in the fair value measurement of the Company's asset and mortgage-backed securities are prepayment rates, probability of default, liquidity premium and loss severity in the event of default. Significant increases (decreases) in any of those inputs in isolation would result in a significantly lower (higher) fair value measurement. Generally, a change in the assumption used for the probability of default is accompanied by a directionally similar change in the assumption used for the liquidity premium and loss severity and a directionally opposite change in the assumption used for prepayment rates.

The actuarial assumptions used in the fair value of embedded derivatives which include assumptions related to lapses, withdrawals, and mortality, are based on experience studies performed by the Company in combination with available industry information and are reviewed on a periodic basis, at least annually. The significant unobservable inputs used in the fair value measurement of embedded derivatives are assumptions associated with policyholder experience and selected capital market assumptions for equity-indexed and variable annuities. The selected capital market assumptions, which include long-term implied volatilities, are projections based on short-term historical information. Changes in interest rates, equity indices, equity volatility, CVA, and actuarial assumptions regarding policyholder experience may result in significant fluctuations in the value of embedded derivatives.

Fair value measurements associated with funds withheld reinsurance treaties are generally not materially sensitive to changes in unobservable inputs associated with policyholder experience. The primary drivers of change in these fair values are related to movements of credit spreads, which are generally observable. Increases (decreases) in market credit spreads tend to decrease (increase) the fair value of embedded derivatives. Increases (decreases) in the CVA assumption tend to decrease (increase) the magnitude of the fair value of embedded derivatives.

Fair value measurements associated with variable annuity treaties are sensitive to both capital markets inputs and policyholder experience inputs. Increases (decreases) in lapse rates tend to decrease (increase) the value of the embedded derivatives associated with variable annuity treaties. Increases (decreases) in the long-term volatility assumption tend to increase (decrease) the fair value of embedded derivatives. Increases (decreases) in the CVA assumption tend to decrease (increase) the fair value of embedded derivatives.



The actuarial assumptions used in the fair value of longevity and mortality swaps include assumptions related to the level and volatility of mortality. The assumptions are based on studies performed by the Company in combination with available industry information and are reviewed on a periodic basis, at least annually.

The following table presents quantitative information about significant unobservable inputs used in Level 3 fair value measurements that are developed internally by the Company as of March 31, 2017 and December 31, 2016 (dollars in thousands):

	Estimated Fa	air Value		_	Range (Weight	ted Average)
	March 31, 2017	December 31, 2016	Valuation Technique	Unobservable Inputs	March 31, 2017	December 31, 2016
Assets:						
Corporate securities	\$158,772	\$167,815	Market comparable securities	Liquidity premium	0-2% (1%)	0-2% (1%)
U.S. government and agencies	23,474	24,488	Market comparable securities	Liquidity premium	0-1% (1%)	0-1% (1%)
State and political subdivisions	4,653	4,670	Market comparable securities	Liquidity premium	1%	1%
Funds withheld at interest- embedded derivatives	46,173	(22,529)	Total return swap	Mortality	0-100% (2%)	0-100% (2%)
				Lapse	0-35% (8%)	0-35% (8%)
				Withdrawal	0-5% (3%)	0-5% (3%)
				CVA	0-5% (1%)	0-5% (1%)
				Crediting rate	2-4% (2%)	2-4% (2%)
Longevity swaps	29,170	26,958	Discounted cash flow	Mortality	0-100% (2%)	0-100% (2%)
				Mortality improvement	(10%)-10% (3%)	(10%)-10% (3%)
Liabilities:						
Interest sensitive contract liabilities- embedded derivatives- indexed annuities	810,657	805,672	Discounted cash flow	Mortality	0-100% (2%)	0-100% (2%)
				Lapse	0-35% (8%)	0-35% (8%)
				Withdrawal	0-5% (3%)	0-5% (3%)
				Option budget projection	2-4% (2%)	2-4% (2%)
Interest sensitive contract liabilities- embedded derivatives- variable annuities	162,273	184,636	Discounted cash flow	Mortality	0-100% (2%)	0-100% (2%)
				Lapse	0-25% (6%)	0-25% (6%)
				Withdrawal	0-7% (3%)	0-7% (3%)
				CVA	0-5% (1%)	0-5% (1%)
				Long-term volatility	0-27% (9%)	0-27% (14%)
Mortality swaps	2,857	2,462	Discounted cash flow	Mortality	0-100% (1%)	0-100% (1%)

The Company recognizes transfers of assets and liabilities into and out of levels within the fair value hierarchy at the beginning of the quarter in which the actual event or change in circumstances that caused the transfer occurs. Assets and liabilities transferred into Level 3 are due to a lack of observable market transactions and price information. Assets and liabilities are transferred out of Level 3 when circumstances change such that significant inputs can be corroborated with market observable data. This may be due to a significant increase in market activity for the asset or liability, a specific event, one or more significant input(s) becoming observable. Transfers out of Level 3 were primarily the result of the Company obtaining observable pricing information or a third party pricing quotation that appropriately reflects the fair value of those assets and liabilities. In addition, certain transfers out of Level 3 were also due to ratings upgrades on mortgage-backed securities that had previously had below investment-grade ratings.

Transfers from Level 1 to Level 2 are due to the lack of observable market data when pricing these securities, while transfers from Level 2 to Level 1 are due to an increase in the availability of market observable data in an active market. There were no transfers between Level 1 and Level 2 during the three months ended March 31, 2016. The following table presents the transfers between Level 1 and Level 2 during the three months ended March 31, 2017 (dollars in thousands):

		20	017	
	Tra	ansfers from Level 1 to Level 2	Le	fers from evel 2 to level 1
Fixed maturity securities - available-for-sale:				
Corporate securities	\$	_	\$	38,675

The tables below provide a summary of the changes in fair value of Level 3 assets and liabilities for the three months ended March 31, 2017, as well as the portion of gains or losses included in income for the three months ended March 31, 2017 attributable to unrealized gains or losses related to those assets and liabilities still held at March 31, 2017 (dollars in thousands):

For the three months ended March 31, 2017:	Fixed maturity securities - available-for-sale												
		Corporate securities		Canadian and Canadian provincial governments		Residential mortgage- backed securities	A	lsset-backed securities	(Commercial mortgage- backed securities		government d agencies	
Fair value, beginning of period	\$	1,272,253	\$	475,965	\$	160,291	\$	219,280	\$	21,145	\$	24,488	
Total gains/losses (realized/unrealized)													
Included in earnings, net:													
Investment income, net of related expenses		(423)		3,070		(245)		1,018		709		(117)	
Investment related gains (losses), net		(1,231)		_		365		_		(595)		_	
Included in other comprehensive income		4,948		4,525		650		5,767		(83)		52	
Other revenues		—		_		_		—		_		—	
Purchases ⁽¹⁾		45,914		_		16,499		10,849		_		104	
Sales ⁽¹⁾		_		_		(10,604)		_		(3,720)		_	
Settlements ⁽¹⁾		(71,470)		_		(6,784)		(18,154)		(5,401)		(1,053)	
Transfers into Level 3		13,934		_		77		35,258		_		_	
Transfers out of Level 3		_		_		(16,819)		(45,582)		(10,132)		_	
Fair value, end of period	\$	1,263,925	\$	483,560	\$	143,430	\$	208,436	\$	1,923	\$	23,474	
Unrealized gains and losses recorded in earnings for the period relating to those Level 3 assets and liabilities that were still held at the end of the period													
Included in earnings, net:													
Investment income, net of related expenses	\$	(423)	\$	3,070	\$	(91)	\$	161	\$	_	\$	(117)	
Investment related gains (losses), net		(1,293)		_		(346)		_		_		_	

For the three months ended March 31, 2017 (continued):	 Fixed matur availabl	e-for C								Interest	
	State d political bdivisions	sur g	· · · · · · · · · · · · · · · · · · ·		Short-term Investments		Funds withheld at interest- embedded derivatives		ther assets - longevity swaps	sensitive contract liabilities embedded derivatives	er liabilities mortality swaps
Fair value, beginning of period	\$ 41,666	\$	12,869	\$	3,346	\$	(22,529)	\$	26,958	\$ (990,308)	\$ (2,462)
Total gains/losses (realized/unrealized)											
Included in earnings, net:											
Investment income, net of related expenses	(88)				_		_		_	_	_
Investment related gains (losses), net	_		_		—		68,702			22,362	_
Interest credited	_		_		_		_		_	(16,402)	_
Included in other comprehensive income	(843)		(191)		33		_		347	_	_
Other revenues	_		_		—		_		1,865	_	(395)
Purchases ⁽¹⁾	_		_		32		—		—	(6,393)	_
Settlements ⁽¹⁾	(33)		(334)		(135)		_		_	17,811	—
Transfers out of Level 3	(6,844)		_		—		—		—	—	—
Fair value, end of period	\$ 33,858	\$	12,344	\$	3,276	\$	46,173	\$	29,170	\$ (972,930)	\$ (2,857)
Unrealized gains and losses recorded in earnings for the period relating to those Level 3 assets and liabilities that were still held at the end of the period											
Included in earnings, net:											
Investment income, net of related expenses	\$ (88)	\$	_	\$	_	\$	_	\$	_	\$ _	\$ _
Investment related gains (losses), net	_		_		_		68,702		_	20,300	_
Other revenues	_		_		—		_		1,865	_	(395)
Interest credited	_		_		_		_		_	(34,214)	_

(1) The amount reported within purchases, sales and settlements is the purchase price (for purchases) and the sales/settlement proceeds (for sales and settlements) based upon the actual date purchased or sold/settled. Items purchased and sold/settled in the same period are excluded from the rollforward. The Company had no issuances during the period.

The tables below provide a summary of the changes in fair value of Level 3 assets and liabilities for the three months ended March 31, 2016, as well as the portion of gains or losses included in income for the three months ended March 31, 2016 attributable to unrealized gains or losses related to those assets and liabilities still held at March 31, 2016 (dollars in thousands):

For the three months ended March 31, 2016:					Fixe	d maturi	itv securiti	es - a	vailable-for-sale	2			
		Corporate securities		Canadian and Canadian provincial governments		Reside mortg back secur	ential gage- ked		Asset-backed securities		Commercial mortgage- backed securities		5. government nd agencies
Fair value, beginning of period	\$	1,226,970	\$	416,076	\$	2	330,649	\$	303,836	\$	68,563	\$	26,265
Total gains/losses (realized/unrealized)													
Included in earnings, net:													
Investment income, net of related expenses		(827)		3,002			(487)		174		643		(123)
Investment related gains (losses), net		(21,868)		_			(31)		278		(620)		_
Included in other comprehensive income		25,682		68,305			(4,332)		(10,527)		(2,812)		596
Purchases ⁽¹⁾		67,596		_			29,315		37,271		1,545		113
Sales ⁽¹⁾		(9,582)		_			(448)		(8,500)		(3,638)		_
Settlements ⁽¹⁾		(49,494)		_			(11,440)		(3,725)		(69)		(971)
Transfers into Level 3		5,183		_			38		6,398		_		_
Transfers out of Level 3				_			(10,011)		(39,985)		(38)		_
Fair value, end of period	\$	1,243,660	\$	487,383	\$		333,253	\$	285,220	\$	63,574	\$	25,880
Unrealized gains and losses recorded in earnings for the period relating to those Level 3 assets and liabilities that were still held at the end of the period		, ,	-	*				-	,	-	,		
Included in earnings, net:													
Investment income, net of related expenses	\$	(820)	\$	3,002	\$		(488)	\$	163	\$	546	\$	(123)
Investment related gains (losses), net		(21,726)		—			—		—		(657)		—
For the three months ended March 31, 2016 (continued):		Fixed matu availabl State and political subdivisions	le-fo			Funds w at inte embe deriva	erest- dded)ther assets - ngevity swaps	Interest sensitive contract liabilities embedded			ner liabilities - ortality swaps
Fair value, beginning of period	\$	38,342	\$	-	\$		(76,698)	\$	14,996	\$	derivatives (1,070,584)	\$	(2,619)
Total gains/losses (realized/unrealized)		/-		,			(,	•	()		()/
Included in earnings, net:													
Investment income, net of related expenses		183		_			_				_		_
Investment related gains (losses), net		_		_			(92,250)				(62,940)		
Interest credited		_		_			(02,200)		_		1,394		_
Included in other comprehensive income		333		193			_		723		1,004		_
Other revenues							_		87		_		(424)
Purchases ⁽¹⁾		_		_			_				(2,668)		(-= -)
Settlements ⁽¹⁾		(31)		(322)			_		_		16,729		_
Transfers out of Level 3		(4,203)		(522)							10,720		
Fair value, end of period	\$	34,624	\$	13,936	\$	(168,948)	\$	15,806	\$	(1,118,069)	\$	(3,043)
Unrealized gains and losses recorded in earnings for the period relating to those Level 3 assets and liabilities that were still held at the end of the period	Ψ	54,024	Ψ	10,000	-	(-	100,040)	Ψ	10,000	Ψ	(1,110,003)	Ţ	(0,040)
Included in earnings, net:													
Investment income, net of related expenses	\$	183	\$		\$		_	\$		\$		\$	_
Investment related gains (losses), net	÷		Ų	_	φ		(92,250)	4	_	4	(65,479)	-	_
Other revenues									87		(35,475)		(424)
Interest credited		_		_			_				(15,335)		(+=+) —

(1) The amount reported within purchases, sales and settlements is the purchase price (for purchases) and the sales/settlement proceeds (for sales and settlements) based upon the actual date purchased or sold/settled. Items purchased and sold/settled in the same period are excluded from the rollforward. The Company had no issuances during the period.

Nonrecurring Fair Value Measurements

During the three months ended March 31, 2017, the Company did not have any adjustments to its assets or liabilities measured at fair value on a nonrecurring basis. The following table presents information for assets measured at estimated fair value on a nonrecurring basis during the three months ended March 31, 2016 and still held at the reporting date (for example, when there is evidence of impairment). The estimated fair values for these assets were determined using significant unobservable inputs (Level 3).

(dollars in thousands)	Carrying Value After Measurement	 Net Investment Gains (Losses)
Mortgage loans ⁽¹⁾	\$ 9,663	\$ (302)
Limited partnership interests ⁽²⁾	4,298	(2,053)

(1) Estimated fair values for impaired mortgage loans are based on internal valuation models using unobservable inputs or, if the loans are in foreclosure or are otherwise determined to be collateral dependent, are based on external appraisals of the underlying collateral.

(2) The impaired limited partnership interests presented above were accounted for using the cost method. Impairments on these cost method investments were recognized at estimated fair value determined using the net asset values of the Company's ownership interest as provided in the financial statements of the investees. The market for these investments has limited activity and price transparency.

Fair Value of Financial Instruments

The Company is required by general accounting principles for *Fair Value Measurements and Disclosures* to disclose the fair value of certain financial instruments including those that are not carried at fair value. The following table presents the carrying amounts and estimated fair values of the Company's financial instruments, which were not measured at fair value on a recurring basis, at March 31, 2017 and December 31, 2016 (dollars in thousands). This table excludes any payables or receivables for collateral under repurchase agreements and other transactions. The estimated fair value of the excluded amount approximates carrying value as they equal the amount of cash collateral received/paid.

March 31, 2017:			Estimated	Fair Value Measurement Using:								
	Car	rying Value	Fair Value		Level 1		Level 2		Level 3		NAV	
Assets:												
Mortgage loans on real estate	\$	3,871,309	\$ 3,909,506	\$	_	\$	_	\$	3,909,506	\$		
Policy loans		1,402,940	1,402,940		_		1,402,940		_		_	
Funds withheld at interest ⁽¹⁾		5,895,159	6,202,931				_		6,202,931			
Cash and cash equivalents ⁽²⁾		810,552	810,552		810,552		_		_			
Short-term investments ⁽²⁾		29,359	29,359		29,359		_		—			
Other invested assets ⁽²⁾		523,365	555,707		26,802		60,492		167,947		300,466	
Accrued investment income		360,225	360,225		_		360,225		_		_	
Liabilities:												
Interest-sensitive contract liabilities ⁽¹⁾	\$	10,279,136	\$ 10,237,636	\$	_	\$	_	\$	10,237,636	\$	_	
Long-term debt		2,788,619	2,964,610		_		_		2,964,610		—	
Collateral finance and securitization notes		825,526	732,353		_		_		732,353		_	

			Estimated	Fair Value Measurement Using:							
Ca	rrying Value		Fair Value		Level 1		Level 2	Level 3			NAV
\$	3,775,522	\$	3,786,987	\$	_	\$	_	\$	3,786,987	\$	
	1,427,602		1,427,602		_		1,427,602				_
	5,893,381		6,193,166		_		—		6,193,166		_
	862,117		862,117		862,117		_		_		_
	32,469		32,469		32,469		_		_		—
	477,132		510,640		26,294		55,669		131,904		296,773
	347,173		347,173		_		347,173		—		—
\$	10,225,099	\$	10,234,544	\$	_	\$	—	\$	10,234,544	\$	—
	3,088,635		3,186,173		_		—		3,186,173		—
	840,700		745,805		_		—		745,805		_
	\$	1,427,602 1,427,602 5,893,381 862,117 32,469 477,132 347,173 10,225,099 3,088,635	\$ 3,775,522 \$ 1,427,602 5,893,381 862,117 32,469 477,132 347,173 \$ 10,225,099 \$ 3,088,635	\$ 3,775,522 \$ 3,786,987 1,427,602 1,427,602 1,427,602 5,893,381 6,193,166 862,117 862,117 32,469 32,469 477,132 510,640 347,173 347,173 \$ 10,225,099 \$ 3,088,635 3,186,173	Carrying Value Fair Value \$ 3,775,522 \$ 3,786,987 \$ 1,427,602 1,427,602 1,427,602 \$ 1,427,602 1,427,602 \$ \$ 5,893,381 6,193,166 \$ 862,117 862,117 \$ 32,469 32,469 \$ 477,132 510,640 \$ 347,173 347,173 \$ \$ 10,225,099 \$ 10,234,544 \$ 3,088,635 3,186,173 \$ \$	Carrying Value Fair Value Level 1 \$ 3,775,522 \$ 3,786,987 \$ 1,427,602 1,427,602 1,427,602 1,427,602 5,893,381 6,193,166 862,117 862,117 862,117 32,469 32,469 32,469 477,132 510,640 26,294 347,173 347,173 \$ 10,225,099 \$ 10,234,544 \$ 3,088,635 3,186,173	Carrying Value Estimated Fair Value Level 1 \$ 3,775,522 \$ 3,786,987 \$ \$ 1,427,602 1,427,602 \$ 1,427,602 1,427,602 \$ 5,893,381 6,193,166 \$ 862,117 862,117 862,117 \$ 32,469 32,469 32,469 \$ 477,132 510,640 26,294 \$ 347,173 347,173 \$ \$ 10,225,099 \$ 10,234,544 \$ \$ 3,088,635 3,186,173 \$	Carrying Value Estimated Fair Value Level 1 Level 2 \$ 3,775,522 \$ 3,786,987 \$ \$ 1,427,602 1,427,602 1,427,602 1,427,602 1,427,602 1,427,602 5,893,381 6,193,166 862,117 862,117 862,117 32,469 32,469 32,469 477,132 510,640 26,294 55,669 347,173 347,173 347,173 \$ 10,225,099 \$ 10,234,544 \$ \$ 3,088,635 3,186,173	Carrying Value Estimated Fair Value Level 1 Level 2 \$ 3,775,522 \$ 3,786,987 \$ \$ \$ 1,427,602 1,427,602 1,427,602 \$ \$ 5,893,381 6,193,166 1,427,602 \$ 862,117 862,117 862,117 \$ 32,469 32,469 32,469 \$ 477,132 510,640 26,294 55,669 \$ 347,173 347,173 \$ \$ \$ 10,225,099 \$ 10,234,544 \$ \$ \$ 3,088,635 3,186,173 \$	Estimated Fair Value Level 1 Level 2 Level 3 \$ 3,775,522 \$ 3,786,987 \$ \$ Level 2 Level 3 \$ 3,775,522 \$ 3,786,987 \$ \$ Level 2 Level 3 \$ 3,775,522 \$ 3,786,987 \$ \$ 3,786,987 \$ \$ 3,786,987 \$ 1,427,602 1,427,602 1,427,602 6,193,166 \$ 5,893,381 6,193,166 6,193,166 \$ 862,117 862,117 862,117 \$ 32,469 32,469 32,469 \$ 347,173 510,640 26,294 55,669 131,904 \$ 347,173 347,173 \$ 10,225,099 \$ 10,234,544 \$ \$ 10,234,544 \$ 3,088,635 3,186,173 3,186,173	Estimated Fair Value Level 1 Level 2 Level 3 \$ 3,775,522 \$ 3,786,987 \$ \$ 1,427,602 \$ 3,786,987 \$ \$ 3,786,987 \$ 1,427,602 \$ 3,786,987 \$ 1,427,602 \$ 3,786,987 \$ 1,427,602 \$ 3,786,987 \$ 1,427,602 \$ 1,427,602 \$ 3,786,987 \$ 1,427,602 \$ 3,786,987 \$ 1,427,602 \$ 1,427,417 \$ 1,427,417 \$ 1,427,417 \$ 1,427,417

- Carrying values presented herein differ from those presented in the condensed consolidated balance sheets because certain items within the respective financial statement caption are embedded derivatives and are measured at fair value on a recurring basis.
- (2) Carrying values presented herein differ from those presented in the condensed consolidated balance sheets because certain items within the respective financial statement caption are measured at fair value on a recurring basis.

Mortgage Loans on Real Estate – The fair value of mortgage loans on real estate is estimated by discounting cash flows, both principal and interest, using current interest rates for mortgage loans with similar credit ratings and similar remaining maturities. As such, inputs include current treasury yields and spreads, which are based on the credit rating and average life of the loan, corresponding to the market spreads. The valuation of mortgage loans on real estate is considered Level 3 in the fair value hierarchy.

Policy Loans – Policy loans typically carry an interest rate that is adjusted annually based on an observable market index and therefore carrying value approximates fair value. The valuation of policy loans is considered Level 2 in the fair value hierarchy.

Funds Withheld at Interest – The carrying value of funds withheld at interest approximates fair value except where the funds withheld are specifically identified in the agreement. When funds withheld are specifically identified in the agreement, the fair value is based on the fair value of the underlying assets which are held by the ceding company. Ceding companies use a variety of sources and pricing methodologies, which are not transparent to the Company and may include significant unobservable inputs, to value the securities that are held in distinct portfolios, therefore the valuation of these funds withheld assets are considered Level 3 in the fair value hierarchy.

Cash and Cash Equivalents and Short-term Investments – The carrying values of cash and cash equivalents and short-term investments approximates fair values due to the short-term maturities of these instruments and are considered Level 1 in the fair value hierarchy.

Other Invested Assets – This primarily includes limited partnership interests accounted for using the cost method, structured loans, FHLB common stock, cash collateral and equity release mortgages. The fair value of limited partnership interests and other investments accounted for using the cost method is determined using the net asset value ("NAV") of the Company's ownership interest as provided in the financial statements of the investees. The fair value of structured loans is estimated based on a discounted cash flow analysis using discount rates applicable to each structured loan, this is considered Level 3 in the fair value hierarchy. The fair value of the Company's common stock investment in the FHLB is considered to be the carrying value and it is considered Level 2 in the fair value hierarchy. The fair value of the Company's cash collateral is considered to be the carrying value and considered to be Level 1 in the fair value hierarchy. The fair value of the Company's equity release mortgage loan portfolio, considered Level 3 in the fair value hierarchy, is estimated by discounting cash flows, both principal and interest, using a risk free rate plus an illiquidity premium. The cash flow analysis considers future expenses, changes in property prices, and actuarial analysis of borrower behavior, mortality and morbidity.

Accrued Investment Income – The carrying value for accrued investment income approximates fair value as there are no adjustments made to the carrying value. This is considered Level 2 in the fair value hierarchy.

Interest-Sensitive Contract Liabilities – The carrying and fair values of interest-sensitive contract liabilities reflected in the table above exclude contracts with significant mortality risk. The fair value of the Company's interest-sensitive contract liabilities utilizes a market standard technique with both capital market inputs and policyholder behavior assumptions, as well as cash values adjusted for recapture fees. The capital market inputs to the model, such as interest rates, are generally observable. Policyholder behavior assumptions are generally not observable and may require use of significant management judgment. The valuation of interest-sensitive contract liabilities is considered Level 3 in the fair value hierarchy.

Long-term Debt/Collateral Finance and Securitization Notes – The fair value of the Company's long-term debt, and collateral finance and securitization notes is generally estimated by discounting future cash flows using market rates currently available for debt with similar remaining maturities and reflecting the credit risk of the Company, including inputs when available, from actively traded debt of the Company or other companies with similar credit quality. The valuation of long-term debt, and collateral finance and securitization notes are generally obtained from brokers and is considered Level 3 in the fair value hierarchy.

7. Segment Information

The accounting policies of the segments are the same as those described in the Summary of Significant Accounting Policies in Note 2 of the consolidated financial statements accompanying the 2016 Annual Report. The Company measures segment performance primarily based on profit or loss from operations before income taxes. There are no intersegment reinsurance transactions and the Company does not have any material long-lived assets.

The Company allocates capital to its segments based on an internally developed economic capital model, the purpose of which is to measure the risk in the business and to provide a basis upon which capital is deployed. The economic capital model considers the unique and specific nature of the risks inherent in the Company's businesses. As a result of the economic capital allocation process, a portion of investment income is attributed to the segments based on the level of allocated capital. In addition, the segments are charged for excess capital utilized above the allocated economic capital basis. This charge is included in policy acquisition costs and other insurance expenses.

The Company has geographic-based and business-based operational segments. Geographic-based operations are further segmented into traditional and financial solutions businesses. Information related to revenues, income (loss) before income taxes and total assets of the Company for each reportable segment are summarized below (dollars in thousands).

	Three r	Three months ended March 31,						
Revenues:	2017		2016					
U.S. and Latin America:								
Traditional	\$ 1,48	8,503 \$	1,400,817					
Financial Solutions	29	3,846	38,905					
Total	1,78	7,349	1,439,722					
Canada:								
Traditional	26	4,275	258,000					
Financial Solutions	1	1,807	10,684					
Total	27	6,082	268,684					
Europe, Middle East and Africa:								
Traditional	31	3,086	289,634					
Financial Solutions		9,989	67,756					
Total		3,075	357,390					
Asia Pacific:								
Traditional	50	5,230	394,199					
Financial Solutions),452	20,071					
Total		5,682	414,270					
Corporate and Other		1,552	32,502					
Total		3,740 \$						
Income (loss) before income taxes: U.S. and Latin America:	2017		2016					
Traditional								
Financial Solutions		9,960 \$						
Total		3,586	(14,896)					
Canada:	13	3,546	36,202					
Traditional								
Financial Solutions		9,328	20,095					
Total		3,592	592					
Europe, Middle East and Africa:	2	2,920	20,687					
Traditional								
Financial Solutions		3,976	(1,116)					
Total	3	1,918	25,424					
Asia Pacific	4	5,894	24,308					
Asia Pacific:								
Traditional		1,688	41,160					
Traditional Financial Solutions	4	1,688 5,872	41,160 8,553					
Traditional Financial Solutions Total	4	1,688 5,872 7,560	41,160 8,553 49,713					
Traditional Financial Solutions	4 4 (4	1,688 5,872	41,160 8,553 49,713 (23,330)					

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Assets: U.S. and Latin America:	N	March 31, 2017		cember 31, 2016
Traditional	\$	18,237,867	\$	18,140,825
Financial Solutions		13,715,786		13,712,106
Total		31,953,653		31,852,931
Canada:				
Traditional		3,843,409		3,846,682
Financial Solutions		83,533		85,405
Total		3,926,942		3,932,087
Europe, Middle East and Africa:				
Traditional		2,670,923		2,559,124
Financial Solutions		3,908,594		3,876,131
Total		6,579,517		6,435,255
Asia Pacific:				
Traditional		4,267,498		3,968,081
Financial Solutions		686,523		676,281
Total		4,954,021		4,644,362
Corporate and Other		6,391,687		6,233,244
Total	\$	53,805,820	\$	53,097,879

8. Commitments, Contingencies and Guarantees

Commitments

Funding of Investments

The Company's commitments to fund investments as of March 31, 2017 and December 31, 2016 are presented in the following table (dollars in thousands):

	Mare	December 31, 2016				
Limited partnership interests and real estate joint ventures	\$	360,498	\$	332,169		
Commercial mortgage loans		170,890		126,248		
Bank loans and private placements		67,994		58,318		
Equity release mortgages		100,158		130,324		

The Company anticipates that the majority of its current commitments will be invested over the next five years; however, these commitments could become due any time at the request of the counterparties. Investments in limited partnership interests and real estate joint ventures are carried at cost or reported using the equity method and included in other invested assets in the condensed consolidated balance sheets. Bank loans and private placements are carried at fair value and included in fixed maturity securities available-for-sale. Equity release mortgages are carried at unpaid principal balances, net of any amortized premium or discount and valuation allowance and included in other invested assets.

Contingencies

Litigation

The Company is subject to litigation in the normal course of its business. The Company currently has no material litigation. A legal reserve is established when the Company is notified of an arbitration demand or litigation or is notified that an arbitration demand or litigation is imminent, it is probable that the Company will incur a loss as a result and the amount of the probable loss is reasonably capable of being estimated.

Other Contingencies

The Company indemnifies its directors and officers as provided in its charters and by-laws. Since this indemnity generally is not subject to limitation with respect to duration or amount, the Company does not believe that it is possible to determine the maximum potential amount due under this indemnity in the future.

Guarantees

Statutory Reserve Support

RGA, through wholly-owned subsidiaries, has committed to provide statutory reserve support to third parties, in exchange for a fee, by funding loans if certain defined events occur. Such statutory reserves are required under the U.S. Valuation of Life Policies Model Regulation (commonly referred to as Regulation XXX for term life insurance policies and Regulation A-XXX for universal life secondary guarantees). The third parties have recourse to RGA should the subsidiary fail to provide the required funding,

however, as of March 31, 2017, the Company does not believe that it will be required to provide any funding under these commitments as the occurrence of the defined events is considered remote. The following table presents the maximum potential obligation for these commitments as of March 31, 2017 (dollars in millions):

Commitment Period	Maximun	n Potential Obligation
2023	\$	500.0
2033		450.0
2034		2,000.0
2035		1,314.2
2036		2,932.0
2037		1,750.0

Other Guarantees

RGA has issued guarantees to third parties on behalf of its subsidiaries for the payment of amounts due under certain securities borrowing arrangements, financing arrangements and office lease obligations, whereby, if a subsidiary fails to meet an obligation, RGA or one of its other subsidiaries will make a payment to fulfill the obligation. Additionally, in limited circumstances, treaty guarantees are granted to ceding companies in order to provide them additional security, particularly in cases where RGA's subsidiary is relatively new, unrated, or not of a significant size, relative to the ceding company. Liabilities supported by the treaty guarantees, before consideration for any legally offsetting amounts due from the guaranteed party are reflected on the Company's condensed consolidated balance sheets in future policy benefits. Potential guaranteed amounts of future payments will vary depending on production levels and underwriting results. Guarantees related to borrowed securities provide additional security to third parties should a subsidiary fail to return the borrowed securities when due. RGA's guarantees issued as of March 31, 2017 and December 31, 2016 are reflected in the following table (dollars in thousands):

	March 31, 2017	7	December 31, 20)16
Treaty guarantees	\$	950,809	\$	902,216
Treaty guarantees, net of assets in trust		822,680		780,786
Borrowed securities		190,090		263,820
Financing arrangements		114,064		119,073
Lease obligations		2,238		2,428

9. Income Tax

Provision for income tax expense differed from the amounts computed by applying the U.S. federal income tax statutory rate of 35% to pre-tax income as a result of the following for the three months ended March 31, 2017 and 2016 (dollars in thousands):

	 Three months ended March 31,				
	2017		2016		
Tax provision at U.S. statutory rate	\$ 72,745	\$	37,653		
Increase (decrease) in income taxes resulting from:					
Foreign tax rate differing from U.S. tax rate	(6,153)		(3,884)		
Differences in tax bases in foreign jurisdictions	(3,383)		(8,935)		
Deferred tax valuation allowance	1,182		4,999		
Amounts related to tax audit contingencies	611		602		
Corporate rate changes	(1,237)		(65)		
Subpart F	186		696		
Foreign tax credits	(126)		(293)		
Return to provision adjustments	229		125		
Equity compensation excess benefit	(1,856)				
Other, net	134		210		
Total provision for income taxes	\$ 62,332	\$	31,108		
Effective tax rate	30.0%		28.9%		

The effective tax rate for the three months ended March 31, 2017 was lower than the U.S. Statutory rate of 35.0% primarily as a result of income in non-U.S. jurisdictions with lower tax rates than the U.S., and the impact of adopting newly-effective accounting guidance related to stock compensation as of January 1, 2017. As a result of the adoption, the excess tax benefits related to share-

based awards are now recorded in income tax expense rather than deferred tax liabilities. See Note 12 - "New Accounting Standards" for additional information. The effective tax rate for the three months ended March 31, 2016 was lower than the U.S. Statutory rate of 35.0% primarily as a result of tax benefits from income in non-U.S. jurisdictions with lower tax rates than the U.S. and differences in tax bases in foreign jurisdictions.

10. Employee Benefit Plans

The components of net periodic benefit costs, included in other operating expenses on the condensed consolidated statements of income, for the three months ended March 31, 2017 and 2016 were as follows (dollars in thousands):

	 Pension		Other Benefits					
	 Three months e	ended Mar	ch 31,	Three months ended March 31,				
	2017		2016	:	2017		2016	
Service cost	\$ 2,580	\$	2,306	\$	721	\$	1,016	
Interest cost	1,198		1,259		565		643	
Expected return on plan assets	(1,285)		(1,224)		_			
Amortization of prior service cost	74		78		(156)		_	
Amortization of prior actuarial loss	1,081		857		457		616	
Settlements	257		_		_		_	
Net periodic benefit cost	\$ 3,905	\$	3,276	\$	1,587	\$	2,275	

The Company has made no pension contributions during the first three months of 2017, and expects to make pension contributions between \$5.0 million and \$10.0 million in 2017.

11. Reinsurance

Retrocession reinsurance treaties do not relieve the Company from its obligations to direct writing companies. Failure of retrocessionaires to honor their obligations could result in losses to the Company. Consequently, allowances would be established for amounts deemed uncollectible. At March 31, 2017 and December 31, 2016, no allowances were deemed necessary. The Company regularly evaluates the financial condition of the insurance companies from which it assumes and to which it cedes reinsurance.

Retrocessions are arranged through the Company's retrocession pools for amounts in excess of the Company's retention limit. As of March 31, 2017 and December 31, 2016, all rated retrocession pool participants followed by the A.M. Best Company were rated "A- (excellent)" or better. The Company verifies retrocession pool participants' ratings on a quarterly basis. For a majority of the retrocessionaires that were not rated, security in the form of letters of credit or trust assets has been posted. In addition, the Company performs annual financial reviews of its retrocessionaires to evaluate financial stability and performance. In addition to its third party retrocessionaires, various RGA reinsurance subsidiaries retrocede amounts in excess of their retention to affiliated subsidiaries.

The following table presents information for the Company's reinsurance ceded receivable assets, including the respective amount and A.M. Best rating for each reinsurer representing in excess of five percent of the total as of March 31, 2017 and December 31, 2016 (dollars in thousands):

		 March	31, 2017		Decembe	er 31, 2016
Reinsurer	A.M. Best Rating	Amount	% of Total	% of Total		% of Total
Reinsurer A	A+	\$ 273,387	35.9%	\$	240,894	35.2%
Reinsurer B	A+	187,880	24.7		183,881	26.9
Reinsurer C	A+	72,191	9.5		68,832	10.1
Reinsurer D	A++	45,327	6.0		36,202	5.3
Reinsurer E	А	41,797	5.5		35,484	5.2
Other reinsurers		140,133	18.4		118,679	17.3
Total		\$ 760,715	100.0%	\$	683,972	100.0%

Included in the total reinsurance ceded receivables balance were \$278.4 million and \$242.0 million of claims recoverable, of which \$4.4 million and \$4.0 million were in excess of 90 days past due, as of March 31, 2017 and December 31, 2016, respectively.

12. New Accounting Standards

Changes to the general accounting principles are established by the Financial Accounting Standards Board ("FASB") in the form of accounting standards updates to the FASB Accounting Standards Codification[™]. Accounting standards updates not listed below were assessed and determined to be either not applicable or are expected to have minimal impact on the Company's condensed consolidated financial statements.

Adoption of New Accounting Standards

Stock Compensation

In March 2016, the FASB updated the general accounting principal for Stock Compensation which changed how companies account for certain aspects of share-based payment awards to employees. The updated guidance requires excess tax benefits and deficiencies from share-based payment awards be recorded in income tax expense in the income statement. Previously, excess tax benefits and deficiencies were recognized in shareholders' equity or deferred taxes on the balance sheet depending on the tax situation of the Company. In addition, the updated guidance also changes the accounting for forfeitures and statutory tax withholding requirements, as well as the classification in the statement of cash flows. The new standard generally requires a modified retrospective transition through a cumulative-effect adjustment as of the beginning of the period of adoption, with certain provisions requiring either a prospective or retrospective transition. The Company adopted the new guidance on January 1, 2017. Upon adoption, the Company recognized excess tax benefits of approximately \$17.7 million in deferred tax assets that were previously not recognized in a cumulative-effect adjustment increasing retained earnings by \$17.7 million. The Company also recorded a tax benefit associated with the excess tax benefits of approximately \$1.9 million in the provision for income taxes for the three-month period ended March 31, 2017. The number of weighted average diluted shares outstanding were also adjusted to exclude excess tax benefits from the assumed proceeds in the diluted shares calculation resulting in an immaterial increase in the number of dilutive shares outstanding. The Company also elected to continue estimating forfeitures for purposes of recognizing share-based compensation. Other aspects of the adoption of the updated guidance did not have a material impact to the Company's financial statements.

Future Adoption of New Accounting Standards

Financial Instruments

In January 2016, the FASB amended the general accounting principle for Financial Instruments, effective for fiscal years and interim periods within those fiscal years beginning after December 15, 2017. The amendment revises the accounting related to (1) the classification and measurement of investments in equity securities, (2) the presentation of certain fair value changes for financial liabilities measured at fair value, (3) certain disclosure requirements associated with the fair value of financial instruments. The new guidance should be applied by means of a cumulative-effect adjustment to the balance sheet as of the beginning of the fiscal year of adoption. The amendments related to equity securities without readily determinable fair values (including disclosure requirements) should be applied prospectively to equity investments that exist as of the date of adoption. The Company is currently evaluating the impact of this amendment on its condensed consolidated financial statements.

In June 2016, the FASB amended the existing impairment guidance of Financial Instruments. The amendment adds to U.S. GAAP an impairment model, known as current expected credit loss ("CECL") model that is based on expected losses rather than incurred losses. For traditional and other receivables, held-to-maturity debt securities, loans and other instruments entities will be required to use the new forward-looking "expected loss" model that generally will result in earlier recognition of allowance for losses. For available-for-sale debt securities with unrealized losses, entities will measure credit losses similar to what they do today, except the losses will be recognized as allowances rather than reduction to the amortized cost of the securities. This guidance is effective for fiscal years and interim periods within those fiscal years beginning after December 15, 2019, with early adoption permitted. The guidance will be adopted through a cumulative-effect adjustment to retained earnings as of the beginning of the first reporting period in which the guidance is effective (that is, a modified-retrospective approach). The Company is currently evaluating the impact of this amendment on its consolidated financial statements.

Leases

In February 2016, the FASB issued guidance which will replace most existing lease accounting guidance. The new standard, based on the principle that entities should recognize assets and liabilities arising from leases, does not significantly change the lessees' recognition, measurement and presentation of expenses and cash flows from the previous accounting standard. Leases are classified as finance or operating. The new standard's primary change is the requirement for entities to recognize a lease liability for payments and a right of use asset representing the right to use the leased asset during the term of operating lease arrangements. Lessees are permitted to make an accounting policy election to not recognize the asset and liability for leases with a term of twelve months or less. Lessors' accounting is largely unchanged from the previous accounting standard. In addition, the new standard expands the disclosure requirements of lease arrangements. Lessees and lessors will use a modified retrospective transition approach, which

includes a number of practical expedients. This guidance is effective for fiscal years and interim periods within those fiscal year beginning after December 15, 2018, with early adoption permitted. The Company is currently evaluating the impact of this amendment on its consolidated financial statements.

Income Taxes

In October 2016, the FASB amended the general accounting principal for Income Taxes, effective for annual and interim periods beginning after December 15, 2017. The amendment requires entities to recognize the tax consequences of intercompany asset transfers, except for inventory, at the transaction date. Current U.S. GAAP prohibits entities from recognizing the income tax consequences from intercompany asset transfers. The seller defers any net tax effect, and the buyer is prohibited from recognizing a deferred tax asset on the difference between the newly created tax basis of the asset in its tax jurisdiction and its financial statement carrying amount as reported in the consolidated financial statements. The amendment requires entities to recognize these tax consequences in the period in which the transfer occurred. There will be an immediate effect on earnings if the tax rates in the seller's and buyer's tax jurisdictions are different. This amendment will be applied using a modified retrospective transition method with a cumulative effect adjustment to retained earnings as of the beginning of the period of adoption. The Company is currently evaluating the impact of this amendment on its consolidated financial statements.

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ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Cautionary Note Regarding Forward-Looking Statements

This report contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 including, among others, statements relating to projections of the strategies, earnings, revenues, income or loss, ratios, future financial performance, and growth potential of the Company. The words "intend," "expect," "project," "estimate," "predict," "anticipate," "should," "believe," and other similar expressions also are intended to identify forward-looking statements. Forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified. Future events and actual results, performance, and achievements could differ materially from those set forth in, contemplated by, or underlying the forward-looking statements.

Numerous important factors could cause actual results and events to differ materially from those expressed or implied by forward-looking statements including, without limitation, (1) adverse capital and credit market conditions and their impact on the Company's liquidity, access to capital and cost of capital, (2) the impairment of other financial institutions and its effect on the Company's business, (3) requirements to post collateral or make payments due to declines in market value of assets subject to the Company's collateral arrangements, (4) the fact that the determination of allowances and impairments taken on the Company's investments is highly subjective, (5) adverse changes in mortality, morbidity, lapsation or claims experience, (6) changes in the Company's financial strength and credit ratings and the effect of such changes on the Company's future results of operations and financial condition, (7) inadequate risk analysis and underwriting, (8) general economic conditions or a prolonged economic downturn affecting the demand for insurance and reinsurance in the Company's current and planned markets, (9) the availability and cost of collateral necessary for regulatory reserves and capital, (10) market or economic conditions that adversely affect the value of the Company's investment securities or result in the impairment of all or a portion of the value of certain of the Company's investment securities, that in turn could affect regulatory capital, (11) market or economic conditions that adversely affect the Company's ability to make timely sales of investment securities, (12) risks inherent in the Company's risk management and investment strategy, including changes in investment portfolio yields due to interest rate or credit quality changes, (13) fluctuations in U.S. or foreign currency exchange rates, interest rates, or securities and real estate markets. (14) adverse litigation or arbitration results. (15) the adequacy of reserves, resources and accurate information relating to settlements, awards and terminated and discontinued lines of business, (16) the stability of and actions by governments and economies in the markets in which the Company operates, including ongoing uncertainties regarding the amount of U.S. sovereign debt and the credit ratings thereof, (17) competitive factors and competitors' responses to the Company's initiatives, (18) the success of the Company's clients, (19) successful execution of the Company's entry into new markets, (20) successful development and introduction of new products and distribution opportunities, (21) the Company's ability to successfully integrate acquired blocks of business and entities, (22) action by regulators who have authority over the Company's reinsurance operations in the jurisdictions in which it operates, (23) the Company's dependence on third parties, including those insurance companies and reinsurers to which the Company cedes some reinsurance, third-party investment managers and others, (24) the threat of natural disasters, catastrophes, terrorist attacks, epidemics or pandemics anywhere in the world where the Company or its clients do business, (25) interruption or failure of the Company's telecommunication, information technology or other operational systems, or the Company's failure to maintain adequate security to protect the confidentiality or privacy of personal or sensitive data stored on such systems, (26) changes in laws, regulations, and accounting standards applicable to the Company, its subsidiaries, or its business, (27) the effect of the Company's status as an insurance holding company and regulatory restrictions on its ability to pay principal of and interest on its debt obligations, and (28) other risks and uncertainties described in this document and in the Company's other filings with the SEC.

Forward-looking statements should be evaluated together with the many risks and uncertainties that affect the Company's business, including those mentioned in this document and described in the periodic reports the Company files with the SEC. These forward-looking statements speak only as of the date on which they are made. The Company does not undertake any obligations to update these forward-looking statements, even though the Company's situation may change in the future. For a discussion of these risks and uncertainties that could cause actual results to differ materially from those contained in the forward-looking statements, you are advised to see Item 1A – "Risk Factors" in the 2016 Annual Report.

Overview

The Company is one of the leading life reinsurers in North America based on premiums and the amount of life reinsurance in force, providing traditional reinsurance and financial solutions to its clients. Traditional reinsurance includes individual and group life and health, disability, and critical illness reinsurance. Financial solutions includes longevity reinsurance, asset-intensive reinsurance, and financial reinsurance. The Company derives revenues primarily from renewal premiums from existing reinsurance treaties, new business premiums from existing or new reinsurance treaties, fee income from financial solutions business and income earned on invested assets.

Historically, the Company's primary business has been traditional life reinsurance, which involves reinsuring life insurance policies that are often in force for the remaining lifetime of the underlying individuals insured, with premiums earned typically over a

period of 10 to 30 years. Each year, however, a portion of the business under existing treaties terminates due to, among other things, lapses or voluntary surrenders of underlying policies, deaths of insureds, and the exercise of recapture options by ceding companies. The Company has expanded its financial solutions business, including significant asset-intensive transactions, which allow its clients to take advantage of growth opportunities and manage their capital, longevity and investment risk.

The Company's long-term profitability largely depends on the volume and amount of death- and health-related claims incurred and the ability to adequately price the risks it assumes. While death claims are reasonably predictable over a period of many years, claims become less predictable over shorter periods and are subject to significant fluctuation from quarter to quarter and year to year. Additionally, the Company generates profits on investment spreads associated with the reinsurance of investment type contracts and generates fees from financial reinsurance transactions which are typically shorter duration than its traditional life reinsurance business. The Company believes its sources of liquidity are sufficient to cover potential claims payments on both a short-term and long-term basis.

As is customary in the reinsurance business, clients continually update, refine, and revise reinsurance information provided to the Company. Such revised information is used by the Company in preparation of its condensed consolidated financial statements and the financial effects resulting from the incorporation of revised data are reflected in the current period.

Segment Presentation

The Company has geographic-based and business-based operational segments. Geographic-based operations are further segmented into traditional and financial solutions businesses. The Company allocates capital to its segments based on an internally developed economic capital model, the purpose of which is to measure the risk in the business and to provide a consistent basis upon which capital is deployed. The economic capital model considers the unique and specific nature of the risks inherent in RGA's businesses.

As a result of the economic capital allocation process, a portion of investment income is credited to the segments based on the level of allocated capital. In addition, the segments are charged for excess capital utilized above the allocated economic capital basis. This charge is included in policy acquisition costs and other insurance expenses. Segment investment performance varies with the composition of investments and the relative allocation of capital to the operating segments.

Segment premium levels can be significantly influenced by currency fluctuations, large transactions, mix of business and reporting practices of ceding companies, and therefore may fluctuate from period to period. Although reasonably predictable over a period of years, segment claims experience can be volatile over shorter periods. See "Results of Operations by Segment" below for further information about the Company's segments.

Consolidated Results of Operations

		Three months ended March 31,				
		2017		2016		
Revenues:		(Dollars in thousands,	except	per share data)		
Net premiums	\$	2,365,696	\$	2,157,005		
Investment income, net of related expenses		514,364		417,266		
Investment related gains (losses), net:						
Other-than-temporary impairments on fixed maturity securities		(17,189)		(33,817)		
Other investment related gains (losses), net		77,712		(87,069)		
Total investment related gains (losses), net		60,523		(120,886)		
Other revenues		68,157		59,183		
Total revenues		3,008,740		2,512,568		
Benefits and Expenses:						
Claims and other policy benefits		2,106,145		1,886,764		
Interest credited		107,684		87,905		
Policy acquisition costs and other insurance expenses		379,389		233,763		
Other operating expenses		158,506		157,424		
Interest expense		42,402		32,807		
Collateral finance and securitization expense		6,770		6,325		
Total benefits and expenses		2,800,896		2,404,988		
Income before income taxes		207,844		107,580		
Provision for income taxes		62,332		31,108		
Net income	\$	145,512	\$	76,472		
Earnings per share:						
Basic earnings per share	\$	2.26	\$	1.18		
Diluted earnings per share	\$	2.22	\$	1.17		
Dividends declared per share	\$	0.41	\$	0.37		
	+			2107		

Consolidated income before income taxes increased \$100.3 million, or 93.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income for first three months of 2017 was primarily due to investment related gains associated with fair value changes on embedded derivatives. Current-period investment related gains primarily reflect favorable changes in the fair value of embedded derivatives on modeo or funds withheld treaties, primarily due to changes in interest rates and credit spreads. Additionally, the Company reported a decrease in impairments on fixed maturity and equity securities of \$16.6 million in the first three months of 2017, as compared to the same period in 2016. Adverse mortality experience in the U.S. and Canada partially offset the favorable investment related variances. Foreign currency exchange fluctuations relative to the prior year did not have a material effect on income before income taxes.

The Company recognizes in consolidated income, any changes in the fair value of embedded derivatives on mode or funds withheld treaties, equity-indexed annuity treaties ("EIAs") and variable annuity products. The combined changes in these three types of embedded derivatives, after adjustment for deferred acquisition costs and retrocession, resulted in an increase in consolidated income before income taxes of approximately \$189.8 million in the first three months of 2017, as compared to the same period in 2016. This fluctuation does not affect current cash flows, crediting rates or spread performance on the underlying treaties. Therefore, management believes it is helpful to distinguish between the effects of changes in these embedded derivatives, net of related hedging activity and deferred acquisition costs, and the primary factors that drive profitability of the underlying treaties, namely investment income, fee income, and interest credited. The individual effect on income before income taxes for these three types of embedded derivatives is as follows:

- The change in the value of embedded derivatives related to reinsurance treaties written on a modco or funds withheld basis are subject to the general accounting principles for derivatives and hedging related to embedded derivatives. The unrealized gains and losses associated with these embedded derivatives, after adjustment for deferred acquisition costs, increased income before income taxes by \$81.0 million in the first three months of 2017, as compared to the same period in 2016.
- Changes in risk-free rates used in the fair value estimates of embedded derivatives associated with EIAs affect the amount of unrealized gains and losses the Company recognizes. The unrealized gains and losses associated with EIAs, after adjustment for deferred acquisition costs and retrocession, increased income before income taxes by \$24.7 million in the first three months of 2017, as compared to the same period in 2016.

The change in the Company's liability for variable annuities associated with guaranteed minimum living benefits affects the amount of unrealized gains and losses the Company recognizes. The unrealized gains and losses associated with guaranteed minimum living benefits, after adjustment for deferred acquisition costs, increased income before income taxes by \$84.1 million in the first three months of 2017, as compared to the same period in 2016. After consideration of the change in fair value of freestanding derivatives used to hedge this liability, income before income taxes increased by \$7.5 million, as compared to the same period in 2016.

Consolidated net premiums increased \$208.7 million, or 9.7%, for the three months ended March 31, 2017, as compared to the same period in 2016, due to growth in life reinsurance in force. Foreign currency exchange fluctuations relative to the prior year did not have a material effect on net premiums. Consolidated assumed life insurance in force increased to \$3,136.8 billion as of March 31, 2017 from \$3,068.4 billion as of March 31, 2016 due to new business production and in force transactions, partially offset by adverse foreign currency exchange fluctuations. The Company added new business production, measured by face amount of insurance in force, of \$91.6 billion and \$107.8 billion during the first three months of 2017 and 2016, respectively. Adverse foreign currency exchange fluctuations offset the increase in assumed life insurance in force from March 31, 2016 by \$68.5 billion. Management believes industry consolidation, regulatory changes and the established practice of reinsuring mortality and morbidity risks should continue to provide opportunities for growth, albeit at rates less than historically experienced in some markets.

Consolidated investment income, net of related expenses, increased \$97.1 million, or 23.3%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in fair value attributed to the Company's funds withheld at interest investment associated with the reinsurance of certain EIAs increased investment income by \$79.0 million in the first three months of 2017, as compared to the same period in 2016. The effect on investment income of the EIA's fair value changes is substantially offset by a corresponding change in interest credited to policyholder account balances resulting in an insignificant effect on net income. Also contributing to the increase in investment income is a larger average invested asset base, excluding spread related business, partially offset by a decrease in the average investment yield. Average invested assets at amortized cost, excluding spread related business, for the three months ended March 31, 2017 totaled \$25.2 billion, a 12.7% increase over March 31, 2016. The average yield earned on investments, excluding spread related business, was 4.41% and 4.46% for the three months ended March 31, 2017 and 2016, respectively. The average yield will vary from quarter to quarter and year to year depending on a number of variables, including the prevailing interest rate and credit spread environment, prepayment fees and make-whole premiums, changes in the mix of the underlying investments and cash balances, and the timing of dividends and distributions on certain investments. A continued low interest rate environment is expected to put downward pressure on this yield in future reporting periods. A portion of investment income is allocated to the operating segments based upon average assets and related capital levels deemed appropriate to support segment operations.

Total investment related gains (losses), net improved by \$181.4 million for the three months ended March 31, 2017, as compared to the same period in 2016. The improvement is primarily due to a favorable change in the value of embedded derivatives related to reinsurance treaties written on a mode or funds withheld basis of \$161.0 million, reflecting the impact of changes in interest rates and credit spreads on the calculation of fair value. In addition, impairments on fixed maturity and equity securities decreased by \$16.6 million in the first three months of 2017, as compared to the same period in 2016. See Note 4 - "Investments" and Note 5 - "Derivative Instruments" in the Notes to Condensed Consolidated Financial Statements for additional information on the impairment losses and derivatives.

The effective tax rate on a consolidated basis was 30.0% and 28.9% for the first quarter 2017 and 2016, respectively. The effective tax rate for the first three months of 2017 was lower than the U.S. Statutory rate of 35% primarily due to income generated in non-U.S. jurisdictions with lower tax rates than the U.S., and the impact of adopting newly-effective accounting guidance related to stock compensation as of January 1, 2017. As a result of the adoption, the excess tax benefits related to share-based awards are now recorded in income tax expense rather than the balance sheet. See Note 12 - "New Accounting Standards" in the Notes to Condensed Consolidated Financial Statements for additional information. The effective tax rate for the first quarter of 2016 was lower than the U.S. Statutory rate of 35% primarily as a result of tax benefits from income in non-U.S. jurisdictions with lower tax rates than the U.S. and differences in tax bases in foreign jurisdictions.

Critical Accounting Policies

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America ("GAAP") requires the application of accounting policies that often involve a significant degree of judgment. Management, on an ongoing basis, reviews estimates and assumptions used in the preparation of financial statements. If management determines that modifications in assumptions and estimates are appropriate given current facts and circumstances, results of operations and financial position as reported in the condensed consolidated financial statements could change significantly.

Management believes the critical accounting policies relating to the following areas are most dependent on the application of estimates and assumptions:

Premiums receivable;

Deferred acquisition costs;

Liabilities for future policy benefits and incurred but not reported claims;

Valuation of investments and other-than-temporary impairments to specific investments;

Valuation of embedded derivatives; and

Income taxes.

A discussion of each of the critical accounting policies may be found in the Company's 2016 Annual Report under "Management's Discussion and Analysis of Financial Condition and Results of Operations – Critical Accounting Policies."

Results of Operations by Segment

U.S. and Latin America Operations

The U.S. and Latin America operations include business generated by its offices in the U.S., Mexico and Brazil. The offices in Mexico and Brazil provide services to clients in other Latin American countries. U.S. and Latin America operations consist of two major segments: Traditional and Financial Solutions. The Traditional segment primarily specializes in individual mortality-risk reinsurance and to a lesser extent, group, health and long-term care reinsurance. The Financial Solutions segment consists of Asset-Intensive and Financial Reinsurance. Asset-Intensive within the Financial Solutions segment provides coinsurance of annuities and corporate-owned life insurance policies and to a lesser extent also issues fee-based synthetic guaranteed investment contracts, which include investment-only, stable value contracts. Financial Reinsurance within the Financial Solutions segment primarily involves assisting ceding companies in meeting applicable regulatory requirements by enhancing the ceding companies' financial strength and regulatory surplus position through relatively low risk reinsurance transactions. Typically these transactions do not qualify as reinsurance under GAAP, due to the low-risk nature of the transactions, so only the related net fees are reflected in other revenues on the consolidated statements of income.

For the three months ended March 31, 2017:	Financial Solutions							
(dollars in thousands)		Traditional Asset-Intensive		Asset-Intensive	Financial Reinsurance		Tot	al U.S. and Latin America
Revenues:	-							
Net premiums	\$	1,304,345	\$	4,635	\$		\$	1,308,980
Investment income, net of related expenses		178,995		187,153		1,664		367,812
Investment related gains (losses), net		1,965		57,771		_		59,736
Other revenues		3,198		23,214		24,409		50,821
Total revenues		1,488,503		272,773		26,073		1,787,349
Benefits and expenses:								
Claims and other policy benefits		1,225,640		17,536		_		1,243,176
Interest credited		20,289		79,157		_		99,446
Policy acquisition costs and other insurance expenses		180,810		83,653		5,941		270,404
Other operating expenses		31,804		6,657		2,316		40,777
Total benefits and expenses		1,458,543		187,003		8,257		1,653,803
Income before income taxes	\$	29,960	\$	85,770	\$	17,816	\$	133,546

(dollars in thousands)	Traditional	Asset-Intensive	Financial Reinsurance	Total U.S. and Latin America
Revenues:				
Net premiums	\$ 1,234,394	\$ 6,219	\$ —	\$ 1,240,613
Investment income, net of related expenses	165,023	117,215	2,607	284,845
Investment related gains (losses), net	(2,100)	(128,551)	_	(130,651)
Other revenues	3,500	22,834	18,581	44,915
Total revenues	 1,400,817	17,717	21,188	1,439,722
Benefits and expenses:				
Claims and other policy benefits	1,119,442	19,833	_	1,139,275
Interest credited	21,400	62,558	_	83,958
Policy acquisition costs and other insurance expenses	177,078	(39,656)	2,568	139,990
Other operating expenses	31,799	5,812	2,686	40,297
Total benefits and expenses	 1,349,719	48,547	5,254	1,403,520
Income before income taxes	\$ 51,098	\$ (30,830)	\$ 15,934	\$ 36,202

Financial Solutions

Income before income taxes increased by \$97.3 million, or 268.9%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income before income taxes was primarily due to changes in the value of the embedded derivatives associated with reinsurance treaties structured on a modco or funds withheld basis combined with a decrease in other-than-temporary impairments. The increase in income was partially offset by unfavorable claims experience in the U.S. Traditional segment.

Traditional Reinsurance

The U.S. and Latin America Traditional segment provides life and health reinsurance to clients for a variety of products through yearly renewable term, coinsurance and modified coinsurance agreements. These reinsurance arrangements may involve either facultative or automatic agreements.

Income before income taxes for the U.S. and Latin America Traditional segment decreased by \$21.1 million, or 41.4%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease is due to unfavorable mortality experience resulting in an increase in the loss ratio to 94.0% in the first quarter of 2017 compared to 90.7% in the same period in 2016. A majority of the increase is attributed to large claim volatility; specifically an increase in the number of large claims reported.

Net premiums increased \$70.0 million, or 5.7%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was primarily due to expected organic premium growth and additional premiums associated with a large individual health treaty. The segment added new individual life business production, measured by face amount of insurance in force of \$26.8 billion and \$41.3 billion for the first three months of 2017 and 2016, respectively.

Net investment income increased \$14.0 million, or 8.5%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was due to both an increase in the average invested asset base and higher yields. The higher yields were mainly the result of larger variable income associated with joint ventures and limited partnerships. Investment related gains (losses), net increased \$4.1 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Claims and other policy benefits as a percentage of net premiums ("loss ratios") were 94.0% and 90.7% for the three months ended March 31, 2017 and 2016, respectively. The increase in the loss ratio for the three months ended March 31, 2017, as compared to the same period in 2016 was primarily due to a higher number of individual mortality claims in excess of \$1.0 million. Although reasonably predictable over a period of years, claims can be volatile over short-term periods.

Interest credited expense decreased \$1.1 million, or 5.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. Interest credited in this segment relates to amounts credited on cash value products which also have a significant mortality component. Income before income taxes is affected by the spread between the investment income and the interest credited on the underlying products.

Policy acquisition costs and other insurance expenses as a percentage of net premiums were 13.9% and 14.3% for the three months ended March 31, 2017 and 2016, respectively. Overall, while these ratios are expected to remain in a predictable range, they may fluctuate from period to period due to varying allowance levels within coinsurance-type arrangements. In addition, the amortization pattern of previously capitalized amounts, which are subject to the form of the reinsurance agreement and the underlying insurance policies, may vary. Also, the mix of first year coinsurance business versus yearly renewable term business can cause the percentage to fluctuate from period to period.

Other operating expenses, as a percentage of net premiums were 2.4% and 2.6% for the three month periods ended March 31, 2017 and 2016, respectively. The expense ratio tends to fluctuate only slightly from period to period due to the maturity and scale of this segment.

Financial Solutions - Asset-Intensive Reinsurance

Asset-Intensive reinsurance within the U.S. and Latin America Financial Solutions segment primarily involves assuming investment risk within underlying annuities and corporate-owned life insurance policies. Most of these agreements are coinsurance, coinsurance with funds withheld or modco. The Company recognizes profits or losses primarily from the spread between the investment income earned and the interest credited on the underlying deposit liabilities, income associated with longevity risk and fees associated with variable annuity account values and guaranteed investment contracts.

Impact of certain derivatives:

Income from the asset-intensive business tends to be volatile due to changes in the fair value of certain derivatives, including embedded derivatives associated with reinsurance treaties structured on a mode or funds withheld basis, as well as embedded derivatives associated with the Company's reinsurance of equity-indexed annuities and variable annuities with guaranteed minimum benefit riders. Fluctuations occur period to period primarily due to changing investment conditions including, but not limited to, interest rate movements (including risk-free rates and credit spreads), implied volatility, the Company's own credit risk and equity market performance, all of which are factors in the calculations of fair value. Therefore, management believes it is helpful to distinguish between the effects of changes in these derivatives, net of related hedging activity, and the primary factors that drive profitability of the underlying treaties, namely investment income, fee income (included in other revenues), and interest credited. These fluctuations are considered unrealized by management and do not affect current cash flows, crediting rates or spread performance on the underlying treaties.

The following table summarizes the asset-intensive results and quantifies the impact of these embedded derivatives for the periods presented. Revenues before certain derivatives, benefits and expenses before certain derivatives, and income before income taxes and certain derivatives, should not be viewed as substitutes for GAAP revenues, GAAP benefits and expenses, and GAAP income before income taxes.

(dollars in thousands)		Three months ended March					
		2017		2016			
Revenues:	-						
Total revenues	\$	272,773	\$	17,717			
Less:							
Embedded derivatives – modco/funds withheld treaties		66,738		(90,214)			
Guaranteed minimum benefit riders and related free standing derivatives		(6,895)		(14,986)			
Revenues before certain derivatives		212,930		122,917			
Benefits and expenses:							
Total benefits and expenses		187,003		48,547			
Less:							
Embedded derivatives – modco/funds withheld treaties		28,942		(51,053)			
Guaranteed minimum benefit riders and related free standing derivatives		(2,282)		(2,849)			
Equity-indexed annuities		(11,443)		13,260			
Benefits and expenses before certain derivatives		171,786	-	89,189			
Income before income taxes:							
Income before income taxes		85,770		(30,830)			
Less:							
Embedded derivatives – modco/funds withheld treaties		37,796		(39,161)			
Guaranteed minimum benefit riders and related free standing derivatives		(4,613)		(12,137)			
Equity-indexed annuities		11,443		(13,260)			
Income before income taxes and certain derivatives	\$	41,144	\$	33,728			

Embedded Derivatives - Modco/Funds Withheld Treaties - Represents the change in the fair value of embedded derivatives on funds withheld at interest associated with treaties written on a modco or funds withheld basis. The fair value changes of embedded derivatives on funds withheld at interest associated with treaties written on a modco or funds withheld basis are reflected in revenues, while the related impact on deferred acquisition expenses is reflected in benefits and expenses. The Company's utilization of a credit valuation adjustment did not have a material effect on the change in fair value of these embedded derivatives for the three months ended March 31, 2017 and 2016.

The change in fair value of the embedded derivatives - modco/funds withheld treaties increased (decreased) income before income taxes by \$37.8 million and \$(39.2) million for the three months ended March 31, 2017 and 2016, respectively. The increase in income for the three months ended March 31, 2017 was primarily due to tightening credit spreads and a divergence in the interest rate swap curve relative to treasury rates. The decrease in income for the three months ended March 31, 2016 was primarily due to widening credit spreads.

Guaranteed Minimum Benefit Riders - Represents the impact related to guaranteed minimum benefits associated with the Company's reinsurance of variable annuities. The fair value changes of the guaranteed minimum benefits along with the changes in fair value of the free standing derivatives (interest rate swaps, financial futures and equity options), purchased by the Company to substantially hedge the liability are reflected in revenues, while the related impact on deferred acquisition expenses is reflected in benefits and expenses. The Company's utilization of a credit valuation adjustment did not have a material effect on the change in fair value of these embedded derivatives for the three months ended March 31, 2017 and 2016.

The change in fair value of the guaranteed minimum benefits, after allowing for changes in the associated free standing derivatives, decreased income before income taxes by \$4.6 million and \$12.1 million for the three months ended March 31, 2017 and 2016, respectively. The decrease in income for the three months ended March 31, 2017 and 2016 was primarily the result of shifts in policyholder behavior.

Equity-Indexed Annuities - Represents changes in the liability for equity-indexed annuities in excess of changes in account value, after adjustments for related deferred acquisition expenses. The change in fair value of embedded derivative liabilities associated with equity-indexed annuities increased (decreased) income before income taxes by \$11.4 million and \$(13.3) million for the three months ended March 31, 2017 and 2016, respectively. The increase in income for the three months ended March 31, 2017 was primarily due to rising equity markets. The decrease in income for the three months ended March 31, 2017 was partially offset by decreasing interest rates.

The changes in derivatives discussed above are considered unrealized by management and do not affect current cash flows, crediting rates or spread performance on the underlying treaties. Fluctuations occur period to period primarily due to changing investment conditions including, but not limited to, interest rate movements (including benchmark rates and credit spreads), credit valuation adjustments, implied volatility and equity market performance, all of which are factors in the calculations of fair value. Therefore, management believes it is helpful to distinguish between the effects of changes in these derivatives and the primary factors that drive profitability of the underlying treaties, namely investment income, fee income (included in other revenues) and interest credited.

Discussion and analysis before certain derivatives:

Income before income taxes and certain derivatives increased by \$7.4 million for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was primarily due to rising equity markets in 2017 and declining equity markets in 2016.

Revenue before certain derivatives increased by \$90.0 million for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in the first quarter was primarily due to the change in fair value of equity options associated with the reinsurance of certain EIAs and other-than-temporary impairments on investments in the first quarter of 2016. The effect on investment income related to equity options is substantially offset by a corresponding change in interest credited.

Benefits and expenses before certain derivatives increased by \$82.6 million for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in the first quarter of 2017 was primarily due to higher interest credited associated with the reinsurance of EIAs. The effect on interest credited related to equity options is substantially offset by a corresponding change in investment income.

The invested asset base supporting this segment increased to \$13.2 billion as of March 31, 2017 from \$13.1 billion as of March 31, 2016. As of March 31, 2017, \$4.1 billion of the invested assets were funds withheld at interest, of which greater than 90% is associated with one client.

Financial Solutions - Financial Reinsurance

Financial Reinsurance within the U.S. and Latin America Financial Solutions segment income before income taxes consists primarily of net fees earned on financial reinsurance transactions. Additionally, a portion of the business is brokered business in which the Company does not participate in the assumption of risk. The fees earned from financial reinsurance contracts and brokered business are reflected in other revenues, and the fees paid to retrocessionaires are reflected in policy acquisition costs and other insurance expenses.

Income before income taxes increased \$1.9 million, or 11.8%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was primarily due to growth from new transactions.

At March 31, 2017 and 2016, the amount of reinsurance assumed from client companies, as measured by pre-tax statutory surplus, risk based capital and other financial structures was \$10.6 billion and \$7.4 billion, respectively. The increase was primarily due to a number of new transactions, as well as organic growth on existing transactions. Fees earned from this business can vary significantly depending on the size of the transactions and the timing of their completion and therefore can fluctuate from period to period.

Canada Operations

The Company conducts reinsurance business in Canada primarily through RGA Canada, which assists clients with capital management activity and mortality and morbidity risk management. The Canada operations are primarily engaged in Traditional reinsurance, which consists mainly of traditional individual life reinsurance, as well as creditor, group life and health, critical illness and disability reinsurance. Creditor insurance covers the outstanding balance on personal, mortgage or commercial loans in the event of death, disability or critical illness and is generally shorter in duration than traditional individual life insurance. The Canada Financial Solutions segment consists of longevity and financial reinsurance.

(dollars in thousands)	Three months ended March 31,											
				2017						2016		
Revenues:		Traditional	Financial Solutions		Total Canada			Traditional	Financial Solutions		Т	otal Canada
Net premiums	\$	215,762	\$	9,410	\$	225,172	\$	215,463	\$	8,951	\$	224,414
Investment income, net of related expenses		44,506		1,044		45,550		42,023		384		42,407
Investment related gains (losses), net		3,843		_		3,843		1,640		_		1,640
Other revenues		164		1,353		1,517		(1,126)		1,349		223
Total revenues		264,275		11,807		276,082		258,000		10,684		268,684
Benefits and expenses:												
Claims and other policy benefits		191,052		7,619		198,671		172,401		9,604		182,005
Interest credited		4		_		4		2		_		2
Policy acquisition costs and other insurance expenses		45,682		144		45,826		57,138		204		57,342
Other operating expenses		8,209		452		8,661		8,364		284		8,648
Total benefits and expenses		244,947		8,215		253,162		237,905		10,092		247,997
Income before income taxes	\$	19,328	\$	3,592	\$	22,920	\$	20,095	\$	592	\$	20,687

Income before income taxes increased by \$2.2 million, or 10.8%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income in the first three months of 2017 is primarily due to favorable experience on longevity business, offset by unfavorable traditional individual life mortality experience. A strengthening Canadian dollar resulted in an increase in income before income taxes of \$1.4 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Traditional Reinsurance

Income before income taxes for the Canada Traditional segment decreased by \$0.8 million, or 3.8%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease in income before income taxes in 2017 is primarily due to unfavorable traditional individual life mortality experience, as compared to the same period in 2016. A strengthening Canadian dollar resulted in an increase in income before income taxes of \$1.2 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net premiums increased \$0.3 million, or 0.1%, for the three months ended March 31, 2017, as compared to the same period in 2016. Foreign currency exchange fluctuation in the Canadian dollar resulted in an increase in net premiums of approximately \$7.6 million for the three months ended March 31, 2017, as compared to the same period in 2016. In addition, traditional individual life business premiums increased over the same period in 2016. Largely offsetting these increases was an anticipated decrease in creditor premiums of \$20.3 million.

Net investment income increased \$2.5 million, or 5.9%, for the three months ended March 31, 2017, as compared to the same period in 2016. Foreign currency exchange fluctuation in the Canadian dollar resulted in an increase in net investment income of approximately \$1.5 million for the three months ended March 31, 2017, as compared to the same period in 2016. Also contributing to the increase was an increase in the invested asset base.

Other revenues increased by \$1.3 million for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in other revenues in the first three months of 2017 relates to gains on foreign currency exchange.

Loss ratios for this segment were 88.5% and 80.0% for the three months ended March 31, 2017 and 2016, respectively. The increase in the loss ratio for the first quarter of 2017, as compared to the same period in 2016, is due to unfavorable traditional individual life mortality experience and a decrease in creditor business premiums. Loss ratios for the traditional individual life mortality business were 102.4% and 99.4% for the first three months ended March 31, 2017 and 2016, respectively. Excluding creditor business, claims as a percentage of net premiums for this segment were 81.8% and 78.4% for the three months ended March 31, 2017 and 2016, respectively. Historically, the loss ratio increased primarily as the result of several large permanent level premium in force blocks assumed in 1997 and 1998. These blocks are mature blocks of long-term permanent level premium

business in which mortality as a percentage of net premiums is expected to be higher than historical ratios. The nature of permanent level premium policies requires the Company to set up actuarial liabilities and invest the amounts received in excess of early-year claims costs to fund claims in later years when premiums, by design, continue to be level as compared to expected increasing mortality or claim costs. As such, investment income becomes a more significant component of profitability of these in force blocks. Excluding creditor business, claims and other policy benefits, as a percentage of net premiums and investment income were 81.9% and 79.2% for the three months ended March 31, 2017 and 2016, respectively.

Policy acquisition costs and other insurance expenses as a percentage of net premiums were 21.2% and 26.5% for the three months ended March 31, 2017 and 2016, respectively. Overall, while these ratios are expected to remain in a predictable range, they may fluctuate from period to period due to varying allowance levels and product mix. The current period decrease reflects a lower level of creditor business. In addition, the amortization patterns of previously capitalized amounts, which are subject to the form of the reinsurance agreement and the underlying insurance policies, may vary.

Other operating expenses as a percentage of net premiums were 3.8% and 3.9% for the three months ended March 31, 2017 and 2016, respectively.

Financial Solutions Reinsurance

Income before income taxes increased by \$3.0 million for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income in the first three months was primarily due to favorable experience on longevity business. A strengthening Canadian dollar resulted in an increase in income before income taxes of \$0.2 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net premiums increased \$0.5 million, or 5.1%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was primarily due to a strengthening Canadian dollar resulted in an increase in net premiums of approximately \$0.4 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net investment income increased \$0.7 million for the three months ended March 31, 2017, as compared to the same period in 2016 primarily due to an increase in the invested asset base.

Claims and other policy benefits decreased \$2.0 million, or 20.7%, for the three months ended March 31, 2017 as compared to the same period in 2016. The decrease was primarily a result of favorable experience on longevity business.

Europe, Middle East and Africa Operations

The Europe, Middle East and Africa ("EMEA") segment includes business generated by its offices principally in the United Kingdom ("UK"), South Africa, France, Germany, Ireland, Italy, the Netherlands, Poland, Spain and the United Arab Emirates. EMEA consists of two major segments: Traditional and Financial Solutions. The Traditional segment primarily provides reinsurance through yearly renewable term and coinsurance agreements on a variety of life, health and critical illness products. Reinsurance agreements may be facultative or automatic agreements covering primarily individual risks and, in some markets, group risks. The Financial Solutions segment consists of reinsurance and other transactions associated with longevity closed blocks, payout annuities, capital management solutions and financial reinsurance.

(dollars in thousands)					Т	Three months en	nded	March 31,				
				2017			2016					
Revenues:	1	raditional	Financial Solutions		Total EMEA		Traditional			Financial Solutions	То	tal EMEA
Net premiums	\$	304,672	\$	41,995	\$	346,667	\$	276,435	\$	35,606	\$	312,041
Investment income, net of related expenses		12,720		29,681		42,401		12,168		28,684		40,852
Investment related gains (losses), net		7		4,575		4,582		5		(1,004)		(999)
Other revenues		687		3,738		4,425		1,026		4,470		5,496
Total revenues		318,086		79,989		398,075		289,634		67,756		357,390
Benefits and expenses:												
Claims and other policy benefits		266,401		35,936		302,337		251,243		36,443		287,686
Interest credited		_		4,113		4,113		_		408		408
Policy acquisition costs and other insurance expenses		15,163		289		15,452		14,782		(193)		14,589
Other operating expenses		22,546		7,733		30,279		24,725		5,674		30,399
Total benefits and expenses		304,110		48,071		352,181		290,750		42,332		333,082
Income (loss) before income taxes	\$	13,976	\$	31,918	\$	45,894	\$	(1,116)	\$	25,424	\$	24,308



Income before income taxes increased by \$21.6 million, or 88.8%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income before income taxes for the first three months was primarily due to improved claims experience. Foreign currency exchange fluctuations resulted in a decrease in income before income taxes totaling \$5.5 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Traditional Reinsurance

Income before income taxes increased by \$15.1 million, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income before income taxes was primarily due to improved claims experience over a poor prior-year period. Individual life claims experience improved across many markets in the segment and critical illness experience in the UK and South Africa also improved as compared to the same period in 2016. Foreign currency exchange fluctuations resulted in a decrease in income before income taxes totaling \$0.7 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net premiums increased \$28.2 million, or 10.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in net premiums was primarily due to increased business volumes, most notably in South Africa related to a treaty entered into during the second quarter of 2016. Unfavorable foreign currency exchange fluctuations decreased net premiums by approximately \$17.9 million for the three months of 2017, as compared to the same period in 2016.

A portion of the net premiums for the segment, in each period presented, relates to reinsurance of critical illness coverage, primarily in the UK. This coverage provides a benefit in the event of the diagnosis of a pre-defined critical illness. Net premiums earned from this coverage totaled \$46.0 million and \$53.6 million for the first three months of 2017 and 2016, respectively.

Net investment income increased \$0.6 million, or 4.5%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase for the first three months of 2017 was primarily due to an increase in the invested asset base. Foreign currency exchange fluctuation resulted in a decrease in net investment income of approximately \$0.7 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Loss ratios for this segment were 87.4% and 90.9% for the three month periods ended March 31, 2017 and 2016, respectively. The decrease in the loss ratio for the first three months of 2017 reflects improved claims experience compared to the prior year. Management views recent experience as normal short-term volatility that is inherent in the business.

Policy acquisition costs and other insurance expenses as a percentage of net premiums were 5.0% and 5.3% for the three months ended March 31, 2017 and 2016, respectively. These percentages fluctuate due to timing of client company reporting, variations in the mixture of business and the relative maturity of the business.

Other operating expenses decreased \$2.2 million, or 8.8%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease was primarily due to expense timing variability and the effect of foreign currency exchange fluctuations. Foreign currency exchange fluctuation resulted in a decrease in operating expenses of approximately \$0.6 million for the three months ended March 31, 2017, as compared to the same period in 2016. Other operating expenses as a percentage of net premiums totaled 7.4% and 8.9% for the three months ended March 31, 2017 and 2016, respectively.

Financial Solutions Reinsurance

Income before income taxes increased by \$6.5 million, or 25.5%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income before income taxes for the first three months was primarily due to favorable longevity experience. Unfavorable foreign currency exchange fluctuations, primarily due to a weaker British Pound, resulted in a decrease in income before income taxes totaling \$4.7 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net premiums increased \$6.4 million, or 17.9%, for the three months ended March 31, 2017, as compared to the same period in 2016 due to growth in longevity business. Net premiums increased due to increased volumes related to closed block longevity business. Unfavorable foreign currency exchange fluctuations decreased net premiums by approximately \$6.2 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Net investment income increased \$1.0 million, or 3.5%, for the three months ended March 31, 2017, as compared to the same period in 2016. This increase was primarily due to an increase in the asset base related to new business.

Other revenues decreased by \$0.7 million, or 16.4%, for the three months ended March 31, 2017, as compared to the same period in 2016. Fees earned from this business can vary significantly depending on the size of the transactions and the timing of their completion and, therefore, can fluctuate from period to period.

Claims and other policy benefits decreased \$0.5 million, or 1.4%, for the three months ended March 31, 2017, as compared to the same period in 2016. An increase in claims and other policy benefits due to increased business volumes was more than offset by unfavorable foreign currency exchange fluctuations of \$5.4 million.

Interest credited expense increased by \$3.7 million for the three months ended March 31, 2017, as compared to the same period in 2016. Interest credited in this segment relates to amounts credited to the contractholders of unit-linked products. The effect on interest credited related to unit-linked products is substantially offset by a corresponding change in investment income.

Other operating expenses increased \$2.1 million, or 36.3%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase is primarily due to increased administration costs related to longevity transactions and are offset partially by the effect of foreign currency exchange fluctuations. Foreign currency exchange fluctuation resulted in a decrease in operating expenses of approximately \$0.7 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Asia Pacific Operations

The Asia Pacific operations include business generated by its offices principally in Australia, China, Hong Kong, India, Japan, Malaysia, New Zealand, Singapore, South Korea and Taiwan. The Traditional segment's principal types of reinsurance include individual and group life and health, critical illness, disability and superannuation. Superannuation is the Australian government mandated compulsory retirement savings program. Superannuation funds accumulate retirement funds for employees, and, in addition, typically offer life and disability insurance coverage. The Financial Solutions segment includes financial reinsurance, asset-intensive and certain disability and life blocks. Reinsurance agreements may be facultative or automatic agreements covering primarily individual risks and in some markets, group risks.

(dollars in thousands)					Т	'hree months ei	nded	March 31,				
				2017						2016		
Revenues:	1	Traditional		Financial Solutions		l Asia Pacific	Traditional		Financial Solutions		Tota	l Asia Pacific
Net premiums	\$	483,307	\$	1,526	\$	484,833	\$	374,142	\$	5,686	\$	379,828
Investment income, net of related expenses		21,902		5,536		27,438		19,867		6,374		26,241
Investment related gains (losses), net		—		7,185		7,185		14		1,687		1,701
Other revenues		21		6,205		6,226		176		6,324		6,500
Total revenues		505,230		20,452		525,682		394,199		20,071		414,270
Benefits and expenses:												
Claims and other policy benefits		355,439		6,495		361,934		274,298		3,473		277,771
Interest credited		_		2,997		2,997		_		3,030		3,030
Policy acquisition costs and other insurance expenses		72,857		1,917		74,774		44,367		1,287		45,654
Other operating expenses		35,246		3,171		38,417		34,374		3,728		38,102
Total benefits and expenses		463,542		14,580		478,122		353,039		11,518		364,557
Income before income taxes	\$	41,688	\$	5,872	\$	47,560	\$	41,160	\$	8,553	\$	49,713

Income before income taxes decreased by \$2.2 million, or 4.3%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease in income before income taxes for the first three months is primarily attributable to less favorable mortality and morbidity experience in Australia as compared to the same period in 2016. This decrease in income was largely offset by higher income from offices in Asia primarily driven by business growth. Foreign currency exchange fluctuations resulted in an increase to income before income taxes totaling approximately \$0.9 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Traditional Reinsurance

Income before income taxes increased by \$0.5 million, or 1.3%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in income before income taxes in 2017 was primarily due to business growth in Asia, offset by less favorable mortality and morbidity experience in Australia. Foreign currency exchange fluctuations resulted in an increase to income before income taxes totaling approximately \$0.9 million for the three months of 2017, as compared to the same period in 2016.

Net premiums increased by \$109.2 million, or 29.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase for the three month period in 2017 was driven by both new and existing business written throughout the segment as well as a premium accrual true-up based on client reporting. Foreign currency exchange fluctuations resulted in an increase in net premiums of approximately \$11.8 million for the three months of 2017, as compared to the same period in 2016.

A portion of the net premiums for the segment, in each period presented, relates to reinsurance of critical illness coverage. This coverage provides a benefit in the event of the diagnosis of a pre-defined critical illness. Reinsurance of critical illness in the segment is offered primarily in South Korea, Australia and Hong Kong. Net premiums earned from this coverage totaled \$141.9 million and \$98.4 million for the first three months ended March 31, 2017 and 2016, respectively.

Net investment income increased \$2.0 million, or 10.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase was primarily due to an increase in the invested asset base. Foreign currency exchange fluctuations resulted in an increase in net investment income of approximately \$0.8 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Other revenues decreased by \$0.2 million, or 88.1%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease in other revenues for the first three months of 2017 was due to foreign currency exchange losses as a result of the appreciation of certain Asian currencies in the current quarter.

Loss ratios for this segment were relatively unchanged at 73.5% and 73.3% for the three months ended March 31, 2017 and 2016, respectively.

Policy acquisition costs and other insurance expenses as a percentage of net premiums were 15.1% and 11.9% for the three months ended March 31, 2017 and 2016, respectively. The ratio of policy acquisition costs and other insurance expenses as a percentage of net premiums should generally decline as the business matures; however, the percentage does fluctuate periodically due to timing of client company reporting and variations in the mixture of business. The increase in the current quarter is primarily due to the true-up of allowances based on client reporting.

Other operating expenses increased \$0.9 million or 2.5%, for the three months ended March 31, 2017, as compared to the same period in 2016 mainly due to increased compensation costs, primarily in the growing Asian operations based in Hong Kong. Other operating expenses as a percentage of net premiums totaled 7.3% and 9.2% for the three months ended March 31, 2017 and 2016, respectively. The timing of premium flows and the level of costs associated with the entrance into and development of new markets within the segment may cause other operating expenses as a percentage of net premiums to fluctuate over periods of time.

Financial Solutions Reinsurance

Income before income taxes decreased by \$2.7 million, or 31.3%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease in income before income taxes is primarily attributable to policy lapses on a closed block of business in Japan. Foreign currency exchange fluctuations had a negligible affect on income before income taxes for the three months ended March 31, 2017, as compared to the same period in 2016.

Net premiums decreased \$4.2 million, or 73.2%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease was primarily due to the aforementioned policy lapses on a closed block of business associated with a treaty in Japan.

Net investment income decreased \$0.8 million, or 13.1%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease is primarily driven by a lower invested asset base. Foreign currency exchange fluctuation resulted in an increase in net investment income of approximately \$0.2 million for the three months ended March 31, 2017, as compared to the same period in 2016.

Other revenues decreased by \$0.1 million, or 1.9%, for the three months ended March 31, 2017, as compared to the same period in 2016. At March 31, 2017 and 2016, the amount of reinsurance assumed from client companies, as measured by pre-tax statutory surplus, risk based capital and other financial reinsurance structures was \$1.5 billion and \$1.0 billion, respectively. Fees earned from this business can vary significantly depending on the size of the transactions and the timing of their completion and, therefore, can fluctuate from period to period.

Claims and other policy benefits increased by \$3.0 million, or 87.0%, for the three months ended March 31, 2017, as compared to the same period in 2016. This increase is attributable to higher benefits paid out related to the aforementioned closed block of business in Japan.

Other operating expenses decreased \$0.6 million, or 14.9%, for the three months ended March 31, 2017, as compared to the same period in 2016, respectively. The timing of premium flows and the level of costs associated with the entrance into and development of new markets within the segment may cause other operating expenses to fluctuate over periods of time.

Corporate and Other

Corporate and Other revenues primarily include investment income from unallocated invested assets and investment related gains and losses. Corporate and Other expenses consist of the offset to capital charges allocated to the operating segments within the policy acquisition costs and other insurance income line item, unallocated overhead and executive costs, interest expense related to debt, and the investment income and expense associated with the Company's collateral finance and securitization transactions. Additionally, Corporate and Other includes results from certain wholly-owned subsidiaries and joint ventures that, among other activities, develop and market technology solutions for the insurance industry.

(dollars in thousands)	Three montl	is ended March 31,	31,	
	2017	2016		
Revenues:				
Net premiums	\$ 44	\$	109	
Investment income, net of related expenses	31,163	22	2,921	
Investment related gains (losses), net	(14,823	j) 7	7,423	
Other revenues	5,168	2	2,049	
Total revenues	21,552	32	2,502	
Benefits and expenses:				
Claims and other policy benefits	21	,	27	
Interest credited	1,124		507	
Policy acquisition costs and other insurance income	(27,067	') (23	3,812)	
Other operating expenses	40,372	39	9,978	
Interest expense	42,402	32	2,807	
Collateral finance and securitization expense	6,770	6	5,325	
Total benefits and expenses	63,628	55	5,832	
Loss before income taxes	\$ (42,076	5) \$ (23)	3,330)	

Loss before income taxes increased by \$18.7 million, or 80.4%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in loss before income taxes in the first quarter is primarily due to a decrease of \$22.2 million in investment related gains (losses), net, and a \$9.6 million increase in interest expense partially offset by an increase of \$8.2 million in investment income.

Total revenues decreased by \$11.0 million, or 33.7%, for the three months ended March 31, 2017, as compared to the same period in 2016. The decrease for the first three months is primarily caused by a decrease of \$22.2 million in investment related gains (losses), net, primarily due to an increase in other-than-temporary impairments of \$2.6 million and a decrease in net gains on the sale of securities of \$17.6 million. This increase was partially offset by an increase of \$8.2 million in investment income related to an increase in unallocated invested assets and an increase in other revenues of \$3.1 million.

Total benefits and expenses increased by \$7.8 million, or 14.0%, for the three months ended March 31, 2017, as compared to the same period in 2016. The increase in the first three months is primarily due to a \$9.6 million increase in interest expense related to the issuance of \$800.0 million in long-term debt during the second quarter of 2016, offset by a decrease of \$3.3 million in policy acquisition costs and other insurance income.

Liquidity and Capital Resources

Overview

The Company believes that cash flows from the source of funds available to it will provide sufficient cash flows for the next twelve months to satisfy the current liquidity requirements of RGA, Inc. and its subsidiaries under various scenarios that include the potential risk of early recapture of reinsurance treaties, market events and higher than expected claims. The Company performs periodic liquidity stress testing to ensure its asset portfolio includes sufficient high quality liquid assets that could be utilized to bolster its liquidity position under stress scenarios. These assets could be utilized as collateral for secured borrowing transactions with various third parties or by selling the securities in the open market if needed. The Company's liquidity requirements have been and will continue to be funded through net cash flows from operations. However, in the event of significant unanticipated cash requirements beyond normal liquidity needs, the Company has multiple liquidity alternatives available based on market conditions and the amount and timing of the liquidity need. These alternatives include borrowings under committed credit facilities, secured borrowings, the ability to issue long-term debt, preferred securities or common equity and, if necessary, the sale of invested assets subject to market conditions.

Current Market Environment

The current interest rate environment in select markets, primarily the U.S. and Canada, continues to negatively affect the Company's earnings. The Company's average investment yield, excluding spread business, for the three months ended March 31, 2017 was 4.41%, 5 basis points below the same period in 2016. The Company's insurance liabilities, in particular its annuity products, are sensitive to changing market factors. Gross unrealized gains on fixed maturity and equity securities available-for-sale increased from \$2,246.5 million at December 31, 2016 to \$2,426.3 million at March 31, 2017. Similarly, gross unrealized losses decreased from \$374.9 million at December 31, 2016 to \$277.6 million at March 31, 2017.

The Company continues to be in a position to hold any investment security showing an unrealized loss until recovery, provided it remains comfortable with the credit of the issuer. As indicated above, gross unrealized gains on investment securities of \$2,426.3 million remain well in excess of gross unrealized losses of \$277.6 million as of March 31, 2017. Historically low interest rates continued to put pressure on the Company's investment yield. The Company does not rely on short-term funding or commercial paper and to date it has experienced no liquidity pressure, nor does it anticipate such pressure in the foreseeable future.

The Company projects its reserves to be sufficient, and it would not expect to write down deferred acquisition costs or be required to take any actions to augment capital, even if interest rates remain at current levels for the next five years, assuming all other factors remain constant. While the Company has felt the pressures of sustained low interest rates and volatile equity markets and may continue to do so, its business operations are not overly sensitive to these risks. Although management believes the Company's current capital base is adequate to support its business at current operating levels, it continues to monitor new business opportunities and any associated new capital needs that could arise from the changing financial landscape.

The Holding Company

RGA is an insurance holding company whose primary uses of liquidity include, but are not limited to, the immediate capital needs of its operating companies, dividends paid to its shareholders, repurchase of common stock and interest payments on its indebtedness. The primary sources of RGA's liquidity include proceeds from its capital-raising efforts, interest income on undeployed corporate investments, interest income received on surplus notes with RGA Reinsurance, RCM and Rockwood Re and dividends from operating subsidiaries. As the Company continues its expansion efforts, RGA will continue to be dependent upon these sources of liquidity. The following tables provide comparative information for RGA (dollars in thousands):

	 Three months ended March 31,							
	2017		2016					
Interest expense	\$ 50,221	\$	40,523					
Capital contributions to subsidiaries	7,500		_					
Dividends to shareholders	26,381		24,019					
Interest and dividend income	26,073		23,049					
	March 31, 2017		December 31, 2016					
Cash and invested assets	\$ 1,055,713	\$	1,443,755					

See Item 15, Schedule II - "Condensed Financial Information of the Registrant" in the 2016 Annual Report for additional financial information related to RGA.

The undistributed earnings of substantially all of the Company's foreign subsidiaries have been reinvested indefinitely in such non-U.S. operations, as described in Note 9 - "Income Tax" of the Notes to Consolidated Financial Statements in the 2016 Annual Report. Under current tax laws, should the Company repatriate such earnings, it may be subject to additional U.S. income taxes and foreign withholding taxes.

RGA endeavors to maintain a capital structure that provides financial and operational flexibility to its subsidiaries, credit ratings that support its competitive position in the financial services marketplace, and shareholder returns. As part of the Company's capital deployment strategy, is has in recent years repurchased shares of RGA common stock and paid dividends to RGA shareholders, as authorized by the board of directors. RGA's current share repurchase program, which was approved by the board of directors in January 2017, authorizes the repurchase of up to \$400.0 million of common stock. The pace of repurchase activity depends on various factors such as the level of available cash, an evaluation of the costs and benefits associated with alternative uses of excess capital, such as acquisitions and in force reinsurance transactions, and RGA's stock price.

Details underlying dividend and share repurchase program activity were as follows (in thousands, except share data):

	 Three months ended March 31,						
	2017		2016				
Dividends to shareholders	\$ 26,381	\$	24,019				
Repurchases of treasury stock	 _		105,144				
Total amount paid to shareholders	\$ 26,381	\$	129,163				
Number of shares repurchased	_		1,232,684				
Average price per share	\$ _	\$	85.30				

In April 2017, RGA's board of directors declared a quarterly dividend of \$0.41 per share. All future payments of dividends are at the discretion of RGA's board of directors and will depend on the Company's earnings, capital requirements, insurance regulatory conditions, operating conditions, and other such factors as the board of directors may deem relevant. The amount of dividends that RGA can pay will depend in part on the operations of its reinsurance subsidiaries. See Note 3 - "Equity" in the Notes to Condensed Consolidated Financial Statements for information on the Company's share repurchase program.

<u>Debt</u>

Certain of the Company's debt agreements contain financial covenant restrictions related to, among others, liens, the issuance and disposition of stock of restricted subsidiaries, minimum requirements of consolidated net worth, maximum ratios of debt to capitalization and change of control provisions. The Company is required to maintain a minimum consolidated net worth, as defined in the debt agreements, of \$3.5 billion, calculated as of the last day of each fiscal quarter. Also, consolidated indebtedness, calculated as of the last day of each fiscal quarter, cannot exceed 35% of the sum of the Company's consolidated indebtedness plus adjusted consolidated stockholders' equity. A material ongoing covenant default could require immediate payment of the amount due, including principal, under the various agreements. Additionally, the Company's debt agreements contain cross-default covenants, which would make outstanding borrowings immediately payable in the event of a material uncured covenant default under any of the agreements, including, but not limited to, non-payment of indebtedness. As of March 31, 2017 and December 31, 2016, the Company had \$2.8 billion and \$3.1 billion, respectively, in outstanding borrowings under its debt agreements and was in compliance with all covenants under those agreements. The ability of the Company to make debt principal and interest payments depends on the earnings and surplus of subsidiaries, investment earnings on undeployed capital proceeds, available liquidity at the holding company, and the Company's ability to raise additional funds.

The Company enters into derivative agreements with counterparties that reference either the Company's debt rating or its financial strength rating. If either rating is downgraded in the future, it could trigger certain terms in the Company's derivative agreements, which could negatively affect overall liquidity. For the majority of the Company's derivative agreements, there is a termination event, at the Company's option, should the long-term senior debt ratings drop below either BBB+ (S&P) or Baa1 (Moody's) or the financial strength ratings drop below either A- (S&P) or A3 (Moody's).

The Company may borrow up to \$850.0 million in cash and obtain letters of credit in multiple currencies on its revolving credit facility that expires in September 2019. As of March 31, 2017, the Company had no cash borrowings outstanding and \$125.4 million in issued, but undrawn, letters of credit under this facility. As of both March 31, 2017 and December 31, 2016, the average interest rate on long-term debt outstanding was 5.12% and 5.16%, respectively.

Based on the historic cash flows and the current financial results of the Company, management believes RGA's cash flows will be sufficient to enable RGA to meet its obligations for at least the next 12 months.

Credit and Committed Facilities

At March 31, 2017, the Company maintained an \$850.0 million syndicated revolving credit facility and certain committed letter of credit facilities aggregating \$754.8 million. See Note 13 - "Debt" in the Notes to Consolidated Financial Statements in the 2016 Annual Report for further information about these facilities.

The Company has obtained bank letters of credit in favor of various affiliated and unaffiliated insurance companies from which the Company assumes business. These letters of credit represent guarantees of performance under the reinsurance agreements and allow ceding companies to take statutory reserve credits. Certain of these letters of credit contain financial covenant restrictions similar to those described in the "Debt" discussion above. At March 31, 2017, there were approximately \$169.6 million of outstanding bank letters of credit in favor of third parties. Additionally, in accordance with applicable regulations, the Company utilizes letters of credit to secure statutory reserve credits when it retrocedes business to its affiliated subsidiaries. The Company

cedes business to its affiliates to help reduce the amount of regulatory capital required in certain jurisdictions, such as the U.S. and the UK. The Company believes the capital required to support the business in the affiliates reflects more realistic expectations than the original jurisdiction of the business, where capital requirements are often considered to be quite conservative. As of March 31, 2017, \$1.4 billion in letters of credit from various banks were outstanding, but undrawn, backing reinsurance between the various subsidiaries of the Company.

Cash Flows

The Company's principal cash inflows from its reinsurance operations include premiums and deposit funds received from ceding companies. The primary liquidity concerns with respect to these cash flows are early recapture of the reinsurance contract by the ceding company and lapses of annuity products reinsured by the Company. The Company's principal cash inflows from its invested assets result from investment income and the maturity and sales of invested assets. The primary liquidity concern with respect to these cash inflows relates to the risk of default by debtors and interest rate volatility. The Company manages these risks very closely. See "Investments" and "Interest Rate Risk" below.

Additional sources of liquidity to meet unexpected cash outflows in excess of operating cash inflows and current cash and equivalents on hand include selling short-term investments or fixed maturity securities and drawing funds under a revolving credit facility, under which the Company had availability of \$724.6 million as of March 31, 2017. The Company also has \$1,154.7 million of funds available through collateralized borrowings from the FHLB as of March 31, 2017. As of March 31, 2017, the Company could have borrowed these additional amounts without violating any of its existing debt covenants.

The Company's principal cash outflows relate to the payment of claims liabilities, interest credited, operating expenses, income taxes, dividends to shareholders, purchases of treasury stock, and principal and interest under debt and other financing obligations. The Company seeks to limit its exposure to loss on any single insured and to recover a portion of benefits paid by ceding reinsurance to other insurance enterprises or reinsurers under excess coverage and coinsurance contracts (See Note 2, "Summary of Significant Accounting Policies" in the Notes to Consolidated Financial Statements in the 2016 Annual Report). The Company performs annual financial reviews of its retrocessionaires to evaluate financial stability and performance. The Company has never experienced a material default in connection with retrocession arrangements, nor has it experienced any difficulty in collecting claims recoverable from retrocessionaires; however, no assurance can be given as to the future performance of such retrocessionaires nor to the recoverability of future claims. The Company's management believes its current sources of liquidity are adequate to meet its cash requirements for the next 12 months.

Summary of Primary Sources and Uses of Liquidity and Capital

The Company's primary sources and uses of liquidity and capital are summarized as follows:

	For the	e three mon	onths ended March 31,		
	2017	<i>i</i>		2016	
		(Dollars ir	n thousands)	
ources:					
Net cash provided by operating activities	\$	417,365	\$	368,572	
Exercise of stock options, net		1,719		3,239	
Change in cash collateral for derivative positions and other arrangements		—		40,392	
Cash provided by changes in universal life and other					
investment type policies and contracts		1,066		391,071	
Effect of exchange rate changes on cash		18,833		20,439	
Total sources		438,983		823,713	
lses:					
Net cash used in investing activities		110,967		709,597	
Dividends to stockholders		26,381		24,019	
Repayment of collateral finance and securitization notes		16,908		6,877	
Principal payments of long-term debt		300,636		610	
Purchases of treasury stock		3,067		105,803	
Change in cash collateral for derivative positions and other arrangements		3,628			
Total uses		461,587		846,906	
et change in cash and cash equivalents	\$	(22,604)	\$	(23,193	

Cash Flows from Operations - The principal cash inflows from the Company's reinsurance activities come from premiums, investment and fee income, annuity considerations and deposit funds. The principal cash outflows relate to the liabilities associated with various life and health insurance, annuity and disability products, operating expenses, income tax payments and interest on outstanding debt obligations. The primary liquidity concern with respect to these cash flows is the risk of shortfalls in premiums and investment income, particularly in periods with abnormally high claims levels.

Cash Flows from Investments - The principal cash inflows from the Company's investment activities come from repayments of principal on invested assets, proceeds from maturities of invested assets, sales of invested assets and settlements of freestanding

derivatives. The principal cash outflows relate to purchases of investments, issuances of policy loans and settlements of freestanding derivatives. The Company typically has a net cash outflow from investing activities because cash inflows from insurance operations are reinvested in accordance with its asset/liability management discipline to fund insurance liabilities. The Company closely monitors and manages these risks through its credit risk management process. The primary liquidity concerns with respect to these cash flows are the risk of default by debtors and market disruption.

Financing Cash Flows - The principal cash inflows from the Company's financing activities come from issuances of RGA debt and equity securities, and deposit funds associated with universal life and other investment type policies and contracts. The principal cash outflows come from repayments of debt, payments of dividends to stockholders, purchases of treasury stock, and withdrawals associated with universal life and other investment type policies and contracts. A primary liquidity concern with respect to these cash flows is the risk of early contractholder and policyholder withdrawal.

Contractual Obligations

There were no material changes in the Company's contractual obligations from those reported in the 2016 Annual Report.

Asset / Liability Management

The Company actively manages its cash and invested assets using an approach that is intended to balance quality, diversification, asset/liability matching, liquidity and investment return. The goals of the investment process are to optimize after-tax, risk-adjusted investment income and after-tax, risk-adjusted total return while managing the assets and liabilities on a cash flow and duration basis.

The Company has established target asset portfolios for each major insurance product, which represent the investment strategies intended to profitably fund its liabilities within acceptable risk parameters. These strategies include objectives and limits for effective duration, yield curve sensitivity and convexity, liquidity, asset sector concentration and credit quality.

The Company's asset-intensive products are primarily supported by investments in fixed maturity securities reflected on the Company's balance sheet and under funds withheld arrangements with the ceding company. Investment guidelines are established to structure the investment portfolio based upon the type, duration and behavior of products in the liability portfolio so as to achieve targeted levels of profitability. The Company manages the asset-intensive business to provide a targeted spread between the interest rate earned on investments and the interest rate credited to the underlying interest-sensitive contract liabilities. The Company periodically reviews models projecting different interest rate scenarios and their effect on profitability. Certain of these assetintensive agreements, primarily in the U.S. and Latin America Financial Solutions operating segment, are generally funded by fixed maturity securities that are withheld by the ceding company.

The Company's liquidity position (cash and cash equivalents and short-term investments) was \$1,232.4 million and \$1,277.4 million at March 31, 2017 and December 31, 2016, respectively. Cash and cash equivalents includes cash collateral received from derivative counterparties of \$194.1 million and \$254.5 million as of March 31, 2017 and December 31, 2016, respectively. This unrestricted cash collateral is included in cash and cash equivalents and the obligation to return it is included in other liabilities in the Company's condensed consolidated balance sheets. Liquidity needs are determined from valuation analyses conducted by operational units and are driven by product portfolios. Periodic evaluations of demand liabilities and short-term liquid assets are designed to adjust specific portfolios, as well as their durations and maturities, in response to anticipated liquidity needs.

See "Securities Borrowing, Lending and Other" in Note 4 - "Investments" in the Notes to Condensed Consolidated Financial Statements for information related to the Company's securities borrowing, lending and repurchase/reverse repurchase programs. In addition to its security agreements with third parties, certain RGA's subsidiaries have entered into intercompany securities lending agreements to more efficiently source securities for lending to third parties and to provide for more efficient regulatory capital management.

The Company is a member of the FHLB and holds \$60.5 million of FHLB common stock, which is included in other invested assets on the Company's condensed consolidated balance sheets. Membership provides the Company access to borrowing arrangements ("advances") and funding agreements, discussed below, with the FHLB. The Company did not have any advances from the FHLB at March 31, 2017 and December 31, 2016. The Company's average outstanding balance of advances was \$3.1 million for the first three months of 2017, and \$35.5 million for the first three months of 2016. Interest on advances is reflected in interest expense on the Company's condensed consolidated statements of income.

In addition, the Company has also entered into funding agreements with the FHLB under guaranteed investment contracts whereby the Company has issued the funding agreements in exchange for cash and for which the FHLB has been granted a blanket lien on the Company's commercial and residential mortgage-backed securities and commercial mortgage loans used to collateralize the Company's obligations under the funding agreements. The Company maintains control over these pledged assets, and may use, commingle, encumber or dispose of any portion of the collateral as long as there is no event of default and the remaining qualified collateral is sufficient to satisfy the collateral maintenance level. The funding agreements and the related security agreements represented by this blanket lien provide that upon any event of default by the Company, the FHLB's recovery is limited to the amount of the Company's liability under the outstanding funding agreements. The amount of the Company's liability for the funding agreements with the FHLB under guaranteed investment contracts was \$1.2 million and \$1.1 billion at March 31, 2017 and December 31, 2016, respectively, which is included in interest sensitive contract liabilities on the Company's condensed consolidated balance sheets. The advances on these agreements are collateralized primarily by commercial and residential mortgage-backed securities, commercial mortgage loans, and U.S. Treasury and government agency securities. The amount of collateral exceeds the liability and is dependent on the type of assets collateralizing the guaranteed investment contracts.

Investments

Management of Investments

The Company's investment and derivative strategies involve matching the characteristics of its reinsurance products and other obligations and to seek to closely approximate the interest rate sensitivity of the assets with estimated interest rate sensitivity of the reinsurance liabilities. The Company achieves its income objectives through strategic and tactical asset allocations, security and derivative strategies within an asset/liability management and disciplined risk management framework. Derivative strategies are employed within the Company's risk management framework to help manage duration, currency, and other risks in assets and/or liabilities and to replicate the credit characteristics of certain assets. For a discussion of the Company's risk management process see "Market Risk" in the "Enterprise Risk Management" section below.

The Company's portfolio management groups work with the Enterprise Risk Management function to develop the investment policies for the assets of the Company's domestic and international investment portfolios. All investments held by the Company, directly or in a funds withheld at interest reinsurance arrangement, are monitored for conformance with the Company's stated investment policy limits as well as any limits prescribed by the applicable jurisdiction's insurance laws and regulations. See Note 4 - "Investments" in the Notes to Condensed Consolidated Financial Statements for additional information regarding the Company's investments.

Portfolio Composition

The Company had total cash and invested assets of \$46.6 billion and \$46.0 billion at March 31, 2017 and December 31, 2016, respectively, as illustrated below (dollars in thousands):

	March 31, 2017	% of Total	December 31, 2016	% of Total
Fixed maturity securities, available-for-sale	\$ 32,694,793	70.2%	\$ 32,093,625	69.6%
Mortgage loans on real estate	3,871,309	8.3	3,775,522	8.2
Policy loans	1,402,940	3.0	1,427,602	3.1
Funds withheld at interest	5,943,450	12.8	5,875,919	12.8
Short-term investments	54,288	0.1	76,710	0.2
Other invested assets	1,429,175	3.1	1,591,940	3.5
Cash and cash equivalents	1,178,114	2.5	1,200,718	2.6
Total cash and invested assets	\$ 46,574,069	100.0%	\$ 46,042,036	100.0%

Investment Yield

The following table presents consolidated average invested assets at amortized cost, net investment income and investment yield, excluding spread related business. Spread related business is primarily associated with contracts on which the Company earns an interest rate spread between assets and liabilities. To varying degrees, fluctuations in the yield on other spread related business is generally subject to corresponding adjustments to the interest credited on the liabilities (dollars in thousands).

		Thre	nths ended March	. 31,	
	2017				Increase/ (Decrease)
Average invested assets at amortized cost	\$	25,212,377	\$	22,379,003	12.7%
Net investment income		273,208		245,299	11.4%
Investment yield (ratio of net investment income to average invested assets)		4.41%		4.46%	(5) bps

Investment yield decreased for the three months ended March 31, 2017 in comparison to the same period in the prior year due to the effect of low interest rate environment.

Fixed Maturity and Equity Securities Available-for-Sale

See "Fixed Maturity and Equity Securities Available-for-Sale" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for tables that provide the amortized cost, unrealized gains and losses, estimated fair value of fixed maturity and equity securities, and the other-than-temporary impairments in AOCI by sector as of March 31, 2017 and December 31, 2016.

The Company's fixed maturity securities are invested primarily in corporate bonds, mortgage- and asset-backed securities, and U.S. and foreign government securities. As of March 31, 2017 and December 31, 2016, approximately 95.1% and 95.0%, respectively, of the Company's consolidated investment portfolio of fixed maturity securities were investment grade.

Important factors in the selection of investments include diversification, quality, yield, call protection and total rate of return potential. The relative importance of these factors is determined by market conditions and the underlying reinsurance liability and existing portfolio characteristics. The largest asset class in which fixed maturity securities were invested was corporate securities, which represented approximately 61.8% and 61.1% of total fixed maturity securities as of March 31, 2017 and December 31, 2016, respectively. See "Corporate Fixed Maturity Securities" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for tables showing the major industry types, which comprise the corporate fixed maturity holdings at March 31, 2017 and December 31, 2016.

As of March 31, 2017, the Company's investments in Canadian and Canadian provincial government securities remains unchanged from December 31, 2016, representing 11.4% of the fair value of total fixed maturity securities. These assets are primarily high quality, long duration provincial strips, the valuation of which is closely linked to the interest rate curve. These assets are longer in duration and held primarily for asset/liability management to meet Canadian regulatory requirements. See "Fixed Maturity and Equity Securities Available-for-Sale" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for tables showing the various sectors as of March 31, 2017 and December 31, 2016.

The Company references rating agency designations in some of its investments disclosures. These designations are based on the ratings from nationally recognized statistical rating organizations, primarily those assigned by S&P. In instances where a S&P rating is not available the Company references the rating provided by Moody's and in the absence of both the Company will assign equivalent ratings based on information from the NAIC. The NAIC assigns securities quality ratings and uniform valuations called "NAIC Designations" which are used by insurers when preparing their U.S. statutory filings. Structured securities (mortgage-backed and asset-backed securities) held by the Company's insurance subsidiaries that maintain the NAIC statutory basis of accounting utilize the NAIC rating methodology. The NAIC assigns designations to publicly traded as well as privately placed securities. The designations assigned by the NAIC range from class 1 to class 6, with designations in classes 1 and 2 generally considered investment grade (BBB or higher rating agency designation). NAIC designations in classes 3 through 6 are generally considered below investment grade (BB or lower rating agency designation).

The quality of the Company's available-for-sale fixed maturity securities portfolio, as measured at fair value and by the percentage of fixed maturity securities invested in various ratings categories, relative to the entire available-for-sale fixed maturity security portfolio, at March 31, 2017 and December 31, 2016 was as follows (dollars in thousands):

				N	1arch 31, 2017				De	cember 31, 2016	
NAIC Designation	Rating Agency Designation	Am	ortized Cost	Estimated Fair Value		% of Total	Amortized Cost			Estimated Fair Value	% of Total
1	AAA/AA/A	\$	19,816,139	\$	21,521,758	65.8%	\$	19,813,653	\$	21,369,081	66.5%
2	BBB		9,159,294		9,571,666	29.3		8,834,469		9,162,483	28.5
3	BB		1,079,371		1,109,172	3.4		944,839		955,735	3.0
4	В		383,254		377,469	1.2		414,087		411,138	1.3
5	CCC and lower		91,245		105,749	0.3		187,744		177,481	0.6
6	In or near default		11,264		8,979	_		16,995		17,707	0.1
	Total	\$	30,540,567	\$	32,694,793	100.0%	\$	30,211,787	\$	32,093,625	100.0%

The Company's fixed maturity portfolio includes structured securities. The following table shows the types of structured securities the Company held at March 31, 2017 and December 31, 2016 (dollars in thousands):

	March 31, 2017				December 31, 2016			
	An	nortized Cost	Estimated ized Cost Fair Value		Amortized Cost			Estimated Fair Value
Residential mortgage-backed securities:								
Agency	\$	584,067	\$	608,066	\$	579,686	\$	602,549
Non-agency		697,104		695,811		678,353		676,027
Total residential mortgage-backed securities		1,281,171		1,303,877		1,258,039		1,278,576
Commercial mortgage-backed securities		1,272,020		1,289,338		1,342,440		1,363,654
Asset-backed securities		1,379,251		1,380,590		1,443,822		1,429,344
Total	\$	3,932,442	\$	3,973,805	\$	4,044,301	\$	4,071,574

The residential mortgage-backed securities include agency-issued pass-through securities and collateralized mortgage obligations. A majority of the agencyissued pass-through securities are guaranteed or otherwise supported by the Federal Home Loan Mortgage Corporation, Federal National Mortgage Association, or the Government National Mortgage Association. The principal risks inherent in holding mortgage-backed securities are prepayment and extension risks, which will affect the timing of when cash will be received and are dependent on the level of mortgage interest rates. Prepayment risk is the unexpected increase in principal payments from the expected, primarily as a result of owner refinancing. Extension risk relates to the unexpected slowdown in principal payments from the expected. In addition, non-agency mortgage-backed securities face credit risk should the borrower be unable to pay the contractual interest or principal on their obligation. The Company monitors its mortgage-backed securities to mitigate exposure to the cash flow uncertainties associated with these risks.

Asset-backed securities include credit card and automobile receivables, student loans, home equity loans and collateralized debt obligations (primarily collateralized loan obligations). The Company owns floating rate securities that represent approximately 13.0% and 12.9% of the total fixed maturity securities at March 31, 2017 and December 31, 2016, respectively. These investments have a higher degree of income variability than the other fixed income holdings in the portfolio due to the floating rate nature of the interest payments. The Company holds these investments to match specific floating rate liabilities primarily reflected in the condensed consolidated balance sheets as collateral finance notes, as well as to enhance asset management strategies. In addition to the risks associated with floating rate securities, principal risks in holding asset-backed securities are structural, credit and capital market risks. Structural risks include the securities' cash flow priority in the capital structure and the inherent prepayment sensitivity of the underlying collateral. Credit risks include the adequacy and ability to realize proceeds from the collateral. Credit risks are mitigated by credit enhancements which include excess spread, over-collateralization and subordination. Capital market risks include general level of interest rates and the liquidity for these securities in the marketplace.

The Company monitors its fixed maturity and equity securities to determine impairments in value and evaluates factors such as financial condition of the issuer, payment performance, the length of time and the extent to which the market value has been below amortized cost, compliance with covenants, general market and industry sector conditions, current intent and ability to hold securities, and various other subjective factors. Based on management's judgment, securities determined to have an other-than-temporary impairment in value are written down to fair value. See "Investments – Other-than-Temporary Impairment" in Note 2 – "Summary of Significant Accounting Policies" in the Notes to Consolidated Financial Statements in the 2016 Annual Report for additional information. The table below summarizes other-than-temporary impairments and changes in the mortgage loan provision for the three months ended March 31, 2017 and 2016 (dollars in thousands).

		Three months ended March 31,			
	2017			2016	
Impairment losses on fixed maturity securities	\$	17,189	\$	33,817	
Other impairment losses		(2)		2,049	
Change in mortgage loan provision		101		11	
Total	\$	17,288	\$	35,877	

The fixed maturity impairments for the three months ended March 31, 2017 and 2016 were largely related to high-yield corporate securities. In addition, other impairment losses for the three months ended March 31, 2016 are due to impairments on limited partnerships.

At March 31, 2017 and December 31, 2016, the Company had \$277.6 million and \$374.9 million, respectively, of gross unrealized losses related to its fixed maturity and equity securities. The distribution of the gross unrealized losses related to these securities is shown below.

	March 31, 2017	December 31, 2016
Sector:		
Corporate securities	59.0%	61.6%
Canadian and Canada provincial governments	1.2	0.9
Residential mortgage-backed securities	4.2	3.6
Asset-backed securities	4.7	6.4
Commercial mortgage-backed securities	2.5	2.1
State and political subdivisions	4.2	16.8
U.S. government and agencies	20.0	3.3
Other foreign government, supranational and foreign government-sponsored enterprises	4.2	5.3
Total	100.0%	100.0%
Industry:		
Finance	17.0%	20.1%
Asset-backed	4.7	6.4
Industrial	36.9	32.9
Mortgage-backed	6.7	5.7
Government	29.6	26.3
Utility	5.1	8.6
Total	100.0%	100.0%

See "Unrealized Losses for Fixed Maturity and Equity Securities Available-for-Sale" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for a table that presents the total gross unrealized losses for fixed maturity and equity securities at March 31, 2017 and December 31, 2016, respectively, where the estimated fair value had declined and remained below amortized cost by less than 20% or more than 20%.

The Company's determination of whether a decline in value is other-than-temporary includes analysis of the underlying credit and the extent and duration of a decline in value. The Company's credit analysis of an investment includes determining whether the issuer is current on its contractual payments, evaluating whether it is probable that the Company will be able to collect all amounts due according to the contractual terms of the security and analyzing the overall ability of the Company to recover the amortized cost of the investment. In the Company's impairment review process, the duration and severity of an unrealized loss position for equity securities are given greater weight and consideration given the lack of contractual cash flows and the deferability features of these securities.

See "Unrealized Losses for Fixed Maturity and Equity Securities Available-for-Sale" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for tables that present the estimated fair values and gross unrealized losses, including other-than-temporary impairment losses reported in AOCI, for fixed maturity and equity securities that have estimated fair values below amortized cost, by class and grade security, as well as the length of time the related market value has remained below amortized cost as of March 31, 2017 and December 31, 2016.

As of March 31, 2017 and December 31, 2016, the Company classified approximately 6.6% and 6.9%, respectively, of its fixed maturity securities in the Level 3 category (refer to Note 6 – "Fair Value of Assets and Liabilities" in the Notes to Condensed Consolidated Financial Statements for additional information). These securities primarily consist of private placement corporate securities, bank loans, Canadian provincial strips, below investment grade mortgage-backed securities, collateralized loan obligations and subprime asset-backed securities with inactive trading markets.

See "Securities Borrowing and Other" in Note 4 - "Investments" in the Notes to Condensed Consolidated Financial Statements for information related to the Company's securities borrowing, repurchase and repurchase/reverse repurchase programs.

Mortgage Loans on Real Estate

Mortgage loans represented approximately 8.3% and 8.2% of the Company's cash and invested assets as of March 31, 2017 and December 31, 2016, respectively. The Company's mortgage loan portfolio consists of U.S. and Canada based investments primarily in commercial offices, light industrial properties and retail locations. The mortgage loan portfolio is diversified by geographic region and property type. Additional information on geographic concentration and property type can be found under "Mortgage Loans on Real Estate" in Note 4 - "Investments" in the Notes to Condensed Consolidated Financial Statements.

As of March 31, 2017 and December 31, 2016, the Company's mortgage loans, gross of unamortized deferred loan origination fees and expenses and valuation allowances, were distributed geographically as follows (dollars in thousands):

	March	31, 2017	December 31, 2016			
	 Recorded Investment	% of Total	Recorded Investment	% of Total		
U.S. Region:						
Pacific	\$ 1,190,378	30.7%	\$ 1,112,636	29.4%		
South Atlantic	780,802	20.1	782,509	20.7		
Mountain	630,895	16.3	615,915	16.3		
East North Central	421,809	10.9	422,512	11.2		
West North Central	309,860	8.0	318,212	8.4		
West South Central	318,497	8.2	317,194	8.4		
Middle Atlantic	81,858	2.1	92,683	2.4		
East South Central	65,884	1.7	57,216	1.5		
New England	9,288	0.2	9,346	0.2		
Subtotal - U.S.	 3,809,271	98.2	3,728,223	98.5		
Canada	70,498	1.8	54,984	1.5		
Total	\$ 3,879,769	100.0%	\$ 3,783,207	100.0%		

Valuation allowances on mortgage loans are established based upon inherent losses expected by management to be realized in connection with future dispositions or settlement of mortgage loans, including foreclosures. The valuation allowances are established after management considers, among other things, the value of underlying collateral and payment capabilities of debtors. Any subsequent adjustments to the valuation allowances will be treated as investment gains or losses. See "Mortgage Loans on Real Estate" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for information regarding valuation allowances and impairments.

Policy Loans

Policy loans comprised approximately 3.0% and 3.1% of the Company's cash and invested assets as of March 31, 2017 and December 31, 2016, respectively, the majority of which are associated with one client. These policy loans present no credit risk because the amount of the loan cannot exceed the obligation due the ceding company upon the death of the insured or surrender of the underlying policy. The provisions of the treaties in force and the underlying policies determine the policy loan interest rates. The Company earns a spread between the interest rate earned on policy loans and the interest rate credited to corresponding liabilities.

Funds Withheld at Interest

Funds withheld at interest comprised approximately 12.8% of the Company's cash and invested assets as of March 31, 2017 and December 31, 2016. For reinsurance agreements written on a modified coinsurance basis and certain agreements written on a coinsurance basis, assets equal to the net statutory reserves are withheld and legally owned and managed by the ceding company, and are reflected as funds withheld at interest on the Company's condensed consolidated balance sheets. In the event of a ceding company's insolvency, the Company would need to assert a claim on the assets supporting its reserve liabilities. However, the risk of loss to the Company is mitigated by its ability to offset amounts it owes the ceding company for claims or allowances against amounts owed by the ceding company. Interest accrues to the total funds withheld at interest assets at rates defined by the treaty terms. Additionally, under certain treaties the Company is subject to the investment performance on the withheld assets, although it does not directly control them. These assets are primarily fixed maturity investment securities and pose risks similar to the fixed maturity securities the Company owns. To mitigate this risk, the Company helps set the investment guidelines followed by the ceding company and monitors compliance. Ceding companies with funds withheld at interest had an average financial strength rating of "A" at March 31, 2017 and December 31, 2016. Certain ceding companies maintain segregated portfolios for the benefit of the Company.

Other Invested Assets

Other invested assets include equity securities, limited partnership interests, joint ventures (other than operating joint ventures), structured loans, derivative contracts, FVO contractholder-directed unit-linked investments, FHLB common stock, real estate held-for-investment and equity release mortgages. Other invested assets represented approximately 3.1% and 3.5% of the Company's cash and invested assets as of March 31, 2017 and December 31, 2016, respectively. See "Other Invested Assets" in Note 4 – "Investments" in the Notes to Condensed Consolidated Financial Statements for a table that presents the carrying value of the Company's other invested assets by type as of March 31, 2017 and December 31, 2016.

The Company utilizes derivative financial instruments to protect the Company against possible changes in the fair value of its investment portfolio as a result of interest rate changes, to hedge against risk of changes in the purchase price of securities, to hedge liabilities associated with the reinsurance of variable annuities with guaranteed living benefits and to manage the portfolio's effective yield, maturity and duration. In addition, the Company utilizes derivative financial instruments to reduce the risk associated with fluctuations in foreign currency exchange rates. The Company uses both exchange-traded, centrally cleared, and customized over-the-counter derivative financial instruments.

See Note 5 - "Derivative Instruments" in the Notes to Condensed Consolidated Financial Statements for a table that presents the notional amounts and fair value of investment related derivative instruments held at March 31, 2017 and December 31, 2016.

The Company may be exposed to credit-related losses in the event of non-performance by counterparties to derivative financial instruments. Generally, the credit exposure of the Company's derivative contracts is limited to the fair value at the reporting date plus or minus any collateral posted or held by the Company. The Company had no credit exposure related to its derivative contracts, excluding futures and mortality swaps, at March 31, 2017 and December 31, 2016, as the net amount of collateral pledged to the Company from counterparties exceeded the fair value of the derivative contracts.

The Company manages its credit risk related to over-the-counter derivatives by entering into transactions with creditworthy counterparties, maintaining collateral arrangements and through the use of master agreements that provide for a single net payment to be made by one counterparty to another at each due date and upon termination. Certain of the Company's OTC derivatives are cleared derivatives, which are bilateral transactions between the Company and a counterparty where the transactions are cleared through a clearinghouse, such that each derivative counterparty is only exposed to the default of the clearinghouse. As exchange-traded futures are affected through regulated exchanges, and positions are marked to market on a daily basis, the Company has minimal exposure to credit-related losses in the event of nonperformance by counterparties. See Note 5 - "Derivative Instruments" in the Notes to Condensed Consolidated Financial Statements for more information regarding the Company's derivative instruments.

Enterprise Risk Management

RGA maintains a dedicated Enterprise Risk Management ("ERM") function that is responsible for analyzing and reporting the Company's risks on an aggregated basis; facilitating monitoring to ensure the Company's risks remain within its appetites, limits and tolerances; and ensuring, on an ongoing basis, that RGA's ERM objectives are met. This includes ensuring proper risk controls are in place; risks are effectively identified, assessed, and managed; and key risks to which the Company is exposed are disclosed to appropriate stakeholders. The ERM function plays an important role in fostering the Company's risk management culture and practices.

Enterprise Risk Management Structure and Governance

The Board of Directors ("the Board") oversees enterprise risk through its standing committees. The Finance, Investments, and Risk Management ("FIRM") Committee of the Board oversees the management of the Company's ERM program and policies. The FIRM receives regular reports and assessments which describe the Company's key risk exposures and include quantitative and qualitative assessments and information about breaches, exceptions, and waivers.

The Company's Global Chief Risk Officer ("CRO") leads the dedicated ERM function. The CRO reports to the Chief Executive Officer ("CEO") and has direct access to the Board through the FIRM Committee with formal reporting occurring quarterly. The CRO is supported by a network of Business Unit Chief Risk Officers and Risk Management Officers throughout the business who are responsible for the analysis and management of risks within their scope. A Lead Risk Management Officer is assigned to each risk to take overall responsibility to monitor and assess the risk consistently across all markets.

In addition to leading the ERM function, the CRO also chairs the Company's Risk Management Steering Committee ("RMSC"), which is made up of senior management executives, including the CEO, the Chief Financial Officer ("CFO"), and the Chief Operating Officer, among others. The RMSC approves targets and limits for each material risk at the consolidated level and reviews these limits at least annually. Exposure to these risks is calculated and presented to the RMSC at least quarterly. Any waiver or exception to established risk limits needs to be approved by the RMSC. The Company also has risk-focused committees such as the Business Continuity and Information Governance Steering Committee, Consolidated Investment Committee, Derivatives Risk Oversight Committee, Asset Liability Management Committee, Actuarial Standards Group, Collateral and Liquidity Committee, and the Currency Risk Management Committee. These committees are comprised of various risk and technical experts and have overlapping membership, enabling consistent and holistic management of risks. These committees that oversee relevant risks relative to segment-level risk targets and limits.

Enterprise Risk Management Framework

RGA's ERM framework provides a platform to assess the risk / return profiles of risks throughout the organization to enable enhanced decision making by business leaders. The ERM framework also guides the development and implementation of mitigation strategies to reduce exposures to these risks to acceptable levels.

RGA's ERM framework includes the following elements:

- 1. Risk Culture: Risk management is an integral part of the Company's culture and is embedded in RGA's business processes in accordance with RGA's risk philosophy. As the cornerstone of the ERM framework, a culture of prudent risk management reinforced by senior management plays a preeminent role in the effective management of risks assumed by RGA.
- 2. Risk Tolerance Statements: Describes the amount of risk the Company is willing to accept, which take into account the interactions and aggregation of risks across multiple risk areas. These statements provide a framework for managing the Company from an overall risk point of view.
- 3. Risk Targets and Limits: Risk Targets are established and managed in conjunction with strategic planning and set the desired range of risk that the Company seeks to assume. Risk Limits establish the maximum amount of each risk that the Company is willing to assume to remain within the Company's risk tolerance.
- 4. Risk Assessment Process: RGA uses qualitative and quantitative methods to assess key risks through a portfolio approach, which analyzes established and emerging risks in conjunction with other risks.
- 5. Business Specific Limits/Controls: These limits/controls provide additional safeguards against undesired risk exposures and are embedded in business processes. Examples include: maximum retention limits, pricing and underwriting reviews, per issuer limits, concentration limits, and standard treaty language.

Proactive risk monitoring and reporting enable early detection and mitigation of emerging risks. The RMSC monitors adherence to risk targets and limits through the ERM function, which reports regularly to the RMSC and FIRM Committee. The frequency of monitoring is tailored to the volatility of each risk. Risk escalation channels coupled with open communication lines enhance the mitigants explained above. The Company has devoted significant resources to developing its ERM program and expects to continue to do so in the future. Nonetheless, the Company's policies and procedures to identify, manage, and monitor risks may not be fully effective. Many of the Company's methods for managing risk are based on historical information, which may not be a good predictor of future risk exposures, such as the risk of a pandemic causing a large number of deaths. Management of operational, legal, and regulatory risk relies on policies and procedures which may not be fully effective under all scenarios.

Risk Categories

The Company categorizes its main risks as insurance risk, market risk, credit risk and operational risk. Specific risk assessments and descriptions can be found below and in Item 1A – "Risk Factors" of the 2016 Annual Report.

Insurance Risk

Insurance risk is the risk of loss due to experience deviating adversely from expectations for mortality, morbidity, longevity and policyholder behavior or lost future profits due to treaty recapture by clients. The Company uses multiple approaches to managing insurance risk: active insurance risk assessment and pricing appropriately for the risks assumed, transferring undesired risks, and managing the retained exposure prudently. These strategies are explained below.

Insurance Risk Assessment and Pricing

The Company has developed extensive expertise in assessing insurance risks which ultimately forms an integral part of ensuring that it is compensated commensurately for the risks it assumes and that it does not overpay for the risks it transfers to third parties. This expertise includes a vast array of market and product knowledge supported by a large information database of historical experience which is closely monitored. Analysis and experience studies derived from this database help form the basis for the Company's pricing assumptions which are used in developing rates for new risks. If actual mortality or morbidity experience is materially adverse, some reinsurance treaties allow for increases to future premium rates.

Misestimation of any key risk can threaten the long term viability of the enterprise. Further, the pricing process is a key operational risk and significant effort is applied to ensuring the appropriateness of pricing assumptions. Some of the safeguards the Company uses to ensure proper pricing are: experience studies, strict underwriting, sensitivity and scenario testing, pricing guidelines and controls, authority limits and internal and external pricing reviews. In addition, the ERM function provides pricing oversight which includes periodic pricing audits.

Risk Transfer

To minimize volatility in financial results and reduce the impact of large losses, the Company transfers some of its insurance risk to third parties using vehicles such as retrocession and catastrophe coverage.

Individual Exposure Retrocession

In the normal course of business, the Company seeks to limit its exposure to loss on any single insured and to recover a portion of claims paid by ceding reinsurance to other insurance enterprises (or retrocessionaires) under excess coverage and coinsurance contracts. In individual life markets, the Company retains a maximum of \$8.0 million of coverage per individual life. In certain limited situations the Company has retained more than \$8.0 million per individual life. The Company enters into agreements with other reinsurers to mitigate the residual risk related to the over-retained policies. Additionally, due to some lower face amount reinsurance coverages provided by the Company in addition to individual life, such as group life, disability and health, under certain circumstances, the Company could potentially incur claims totaling more than \$8.0 million per individual life.

Catastrophic Excess Loss Retrocession

The Company seeks to limit its exposure to loss on its assumed catastrophic excess of loss reinsurance agreements by ceding a portion of its exposure to multiple retrocessionaires through retrocession line slips or directly to retrocession markets. The Company retains a maximum of \$20.0 million of catastrophic loss exposure per agreement and retrocedes up to \$30.0 million additional loss exposures to the retrocession markets. The Company limits its exposure on a country-by-country (and state-by-state in the U.S.) basis by managing its total exposure to all catastrophic excess of loss agreements bound within a given country to established maximum aggregate exposures. The maximum exposures are established and managed both on gross amounts issued prior to including retrocession and for amounts net of exposures retroceded.

Catastrophe Coverage

The Company accesses the markets each year for annual catastrophic coverages and reviews current coverage and pricing of current and alternate designs. Purchases vary from year to year based on the Company's perceived value of such coverages. The current policy covers events involving 8 or more insured deaths from a single occurrence and covers \$100.0 million of claims in excess of the Company's \$25.0 million deductible.

Managing Retained Exposure

The Company retains most of the inbound insurance risk. The Company manages the retained exposure proactively using various mitigating factors such as diversification and limits. Diversification is the primary mitigating factor of short term volatility risk, but it also mitigates adverse impacts of changes in long term trends and catastrophic events. The Company's insured populations are dispersed globally, diversifying the insurance exposure because factors that cause actual experience to deviate materially from expectations do not affect all areas uniformly and synchronously or in close sequence. A variety of limits mitigate retained insurance risk. Examples of these limits include geographic exposure limits, which set the maximum amount of business that can be written in a given locale, and jumbo limits, which prevent excessive coverage on a given individual.

In the event that mortality or morbidity experience develops in excess of expectations, some reinsurance treaties allow for increases to future premium rates. Other treaties include experience refund provisions, which may also help reduce RGA's mortality risk.

RGA has various methods to manage its insurance risks, including access to the capital and reinsurance markets.

Market Risk

Market risk is the risk that net asset and liability values or results of operations will be affected adversely by changes in market conditions such as market prices, exchange rates, and nominal interest rates. The Company is primarily exposed to interest rate, foreign currency, inflation, real estate and equity risks.

Interest Rate Risk

Interest rate risk is the potential for loss, on a net asset and liability basis, due to changes in interest rates, including both risk-free rate changes and credit spread changes. This risk arises from many of the Company's primary activities, as the Company invests substantial funds in interest-sensitive assets, primarily fixed maturity securities, and also has certain interest-sensitive contract liabilities. A prolonged period where market yields are significantly below the book yields of the Company's asset portfolio puts downward pressure on portfolio book yields. The Company has been proactive in its investment strategies, reinsurance structures and overall asset-liability management practices to reduce the risk of unfavorable consequences in this type of environment.

The Company manages interest rate risk to optimize the return on the Company's capital and to preserve the value created by its business operations within certain constraints. For example, certain management and monitoring processes are designed to minimize

the effect of sudden and/or sustained changes in interest rates on fair value, cash flows, and net interest income. The Company manages its exposure to interest rates principally by managing the relative matching of the cash flows of its liabilities and assets.

The Company's exposure to interest rate price risk and interest rate cash flow risk is reviewed on a quarterly basis. Interest rate price risk exposure is measured using interest rate sensitivity analysis to determine the change in fair value of the Company's financial instruments in the event of a hypothetical change in interest rates. Interest rate cash flow risk exposure is measured using interest rate sensitivity analysis to determine the change in the event of a hypothetical change in interest rate sensitivity analysis to determine the Company's variability in cash flows in the event of a hypothetical change in interest rates.

In order to reduce the exposure to changes in fair values from interest rate fluctuations, the Company has developed strategies to manage the net interest rate sensitivity of its assets and liabilities. In addition, from time to time, the Company has utilized the swap market to manage the sensitivity of fair values to interest rate fluctuations.

Foreign Currency Risk

The Company is subject to foreign currency translation, transaction, and net income exposure. The Company manages its exposure to currency principally by currency matching invested assets with the underlying liabilities to the extent possible. The Company has in place net investment hedges for a portion of its investments in its Canadian operations to reduce excess exposure to these currencies. Translation differences resulting from translating foreign subsidiary balances to U.S. dollars are reflected in stockholders' equity on the condensed consolidated balance sheets.

The Company generally does not hedge the foreign currency exposure of its subsidiaries transacting business in currencies other than their functional currency (transaction exposure). However, the Company has entered into cross currency swaps to manage exposure to specific currencies. The majority of the Company's foreign currency transactions are denominated in Australian dollars, British pounds, Canadian dollars, Euros, Japanese yen, Korean won, and the South African rand. The maximum amount of assets held in a specific currency (with the exception of the U.S. dollar) is measured relative to risk targets and is monitored regularly.

Inflation Risk

The primary direct effect on the Company of inflation is the increase in operating expenses. A large portion of the Company's operating expenses consists of salaries, which are subject to wage increases at least partly affected by the rate of inflation. The rate of inflation also has an indirect effect on the Company. To the extent that a government's policies to control the level of inflation result in changes in interest rates, the Company's investment income is affected.

The Company reinsures annuities with benefits indexed to the cost of living. Some of these benefits are hedged with a combination of CPI swaps and indexed bonds when material.

Long Term Care products have an inflation component linked to the future cost of such services. If health care costs increase at a much larger rate than what is prevalent in the nominal interest rates available in the markets, the Company may not earn enough investment yield to pay future claims on such products.

Real Estate Risk

The Company has investments in direct real estate equity and debt instruments collateralized by real estate ("real estate loans"). Real estate equity risks include significant reduction in valuations, which could be caused by downturns in the broad economy or in specific geographic regions or sectors. In addition, real estate loan risks include defaults, natural disasters, borrower or tenant bankruptcy and reduced liquidity. Real estate loan risks are partially mitigated by the excess of the value of the property over the loan principle, which provides a buffer should the value of the real estate decrease. The Company manages its real estate loan risk by diversifying by property type and geography and through exposure limits.

Equity Risk

Equity risk is the risk that net asset and liability (e.g. variable annuities or other equity linked exposures) values or revenues will be affected adversely by changes in equity markets. The Company assumes equity risk from alternative investments, fixed indexed annuities and variable annuities. The Company uses derivatives to hedge its exposure to movements in equity markets that have a direct correlation with certain of its reinsurance products.

Alternative Investments

Alternative investments are investments in non-traditional asset classes that primarily back the Company's capital and surplus. The Company generally restricts the alternative investments portfolio to non-liability supporting assets: that is, free surplus. For (re)insurance companies, alternative investments generally encompass: hedge funds, owned commercial real estate, emerging markets debt, distressed debt, commodities, infrastructure, tax credits, and equities, both public and private. The Company mitigates its exposure to alternative investments by limiting the size of the alternative investments holding.

Fixed Indexed Annuities

The Company reinsures fixed indexed annuities ("FIAs"). Credits for FIAs are affected by changes in equity markets. Thus the fair value of the benefit is primarily a function of index returns and volatility. The Company hedges most of the underlying FIA equity exposure.

Variable Annuities

The Company reinsures variable annuities including those with guaranteed minimum death benefits ("GMDB"), guaranteed minimum income benefits ("GMIB"), guaranteed minimum accumulation benefits ("GMAB") and guaranteed minimum withdrawal benefits ("GMWB"). Strong equity markets, increases in interest rates and decreases in equity market volatility will generally decrease the fair value of the liabilities underlying the benefits. Conversely, a decrease in the equity markets along with a decrease in interest rates and an increase in equity market volatility will generally result in an increase in the fair value of the liabilities underlying the benefits, which has the effect of increasing reserves and lowering earnings. The Company maintains a customized dynamic hedging program that is designed to substantially mitigate the risks associated with income volatility around the change in reserves on guaranteed benefits, ignoring the Company's own credit risk assessment. However, the hedge positions may not fully offset the changes in the carrying value of the guarantees due to, among other things, time lags, high levels of volatility in the equity and derivative markets, extreme swings in interest rates, unexpected contract holder behavior, and divergence between the performance of the underlying funds and hedging indices. These factors, individually or collectively, may have a material adverse effect on the Company's net income, financial condition or liquidity. The table below provides a summary of variable annuity account values and the fair value of the guaranteed benefits as of March 31, 2017 and December 31, 2016.

(dollars in millions)	March 31, 2017		December 31, 2016	
No guarantee minimum benefits	\$ 727	\$	731	
GMDB only	58		58	
GMIB only	5		5	
GMAB only	29		28	
GMWB only	1,354		1,334	
GMDB / WB	339		335	
Other	20		19	
Total variable annuity account values	\$ 2,532	\$	2,510	
Fair value of liabilities associated with living benefit riders	\$ 162	\$	185	

Credit Risk

Credit risk is the risk of loss due to counterparty (obligor, client, retrocessionaire, or partner) credit deterioration or unwillingness to meet its obligations. Credit risk has two forms: investment credit risk (asset default and credit migration) and insurance counterparty risk.

Investment Credit Risk

Investment credit risk, which includes default risk, is risk of loss due to credit quality deterioration of an individual financial investment, derivative or nonderivative contract or instrument. Credit quality deterioration may or may not be accompanied by a ratings downgrade. Generally, the investment credit exposure for fixed maturity securities is limited to the fair value, net of any collateral received, at the reporting date.

The Company manages investment credit risk using per-issuer investment limits. In addition to per-issuer limits, the Company also limits the total amounts of investments per rating category. An automated compliance system checks for compliance for all investment positions and sends warning messages when there is a breach. The Company manages its credit risk related to over-the-counter derivatives by entering into transactions with creditworthy counterparties, maintaining collateral arrangements and through the use of master agreements that provide for a single net payment to be made by one counterparty to another at each due date and upon termination. Because futures are transacted through regulated exchanges, and positions are marked to market on a daily basis, the Company has minimal exposure to credit-related losses in the event of nonperformance by counterparties to such derivative instruments.

The Company enters into various collateral arrangements, which require both the posting and accepting of collateral in connection with its derivative instruments. Collateral agreements contain attachment thresholds that vary depending on the posting party's financial strength ratings. Additionally, a decrease in the Company's financial strength rating to a specified level results in potential settlement of the derivative positions under the Company's agreements with its counterparties. A committee is responsible for setting rules and approving and overseeing all transactions requiring collateral. See "Credit Risk" in Note 5 – "Derivative Instruments" in the Notes to Condensed Consolidated Financial Statements for additional information on credit risk related to derivatives.

Insurance Counterparty Risk

Insurance counterparty risk is the potential for the Company to incur losses due to a client, retrocessionaire, or partner becoming distressed or insolvent. This includes run-on-the-bank risk and collection risk.

Run-on-the-Bank

The risk that a client's in force block incurs substantial surrenders and/or lapses due to credit impairment, reputation damage or other market changes affecting the counterparty. Substantially higher than expected surrenders and/or lapses could result in inadequate in force business to recover cash paid out for acquisition costs.

Collection Risk

For clients and retrocessionaires, this includes their inability to satisfy a reinsurance agreement because the right of offset is disallowed by the receivership court; the reinsurance contract is rejected by the receiver, resulting in a premature termination of the contract; and/or the security supporting the transaction becomes unavailable to RGA.

The Company manages insurance counterparty risk by limiting the total exposure to a single counterparty and by only initiating contracts with creditworthy counterparties. In addition, some of the counterparties have set up trusts and letters of credit, reducing the Company's exposure to these counterparties.

Generally, RGA's insurance subsidiaries retrocede amounts in excess of their retention to certain other RGA insurance subsidiaries. External retrocessions are arranged through the Company's retrocession pools for amounts in excess of its retention. As of March 31, 2017, all retrocession pool members in this excess retention pool rated by the A.M. Best Company were rated "A-" or better. A rating of "A-" is the fourth highest rating out of sixteen possible ratings. For a majority of the retrocessionaires that were not rated, letters of credit or trust assets have been given as additional security. In addition, the Company performs annual financial and in force reviews of its retrocessionaires to evaluate financial stability and performance.

The Company has never experienced a material default in connection with retrocession arrangements, nor has it experienced any material difficulty in collecting claims recoverable from retrocessionaires; however, no assurance can be given as to the future performance of such retrocessionaires or as to the recoverability of any such claims.

Aggregate Counterparty Limits

In addition to investment credit limits and insurance counterparty limits, there are aggregate counterparty risk limits which include counterparty exposures from reinsurance, financing and investment activities at an aggregated level to control total exposure to a single counterparty. Counterparty risk aggregation is important because it enables the Company to capture risk exposures at a comprehensive level and under more extreme circumstances compared to analyzing the components individually.

All counterparty exposures are calculated on a quarterly basis, reviewed by management and monitored by the ERM function.

Operational Risks

Operational risks represent the risk of loss, or lost business opportunities, due to inadequate or failed internal processes, people, or systems or due to external events. These risks are sometimes residual risks after insurance, market, and credit risks have been identified. Identified operational risks include the following:

Key operational process risks (such as administration, claims, underwriting, investment operations, retrocession, pricing process, disruption of operations, information security, and financial reporting) could have potential effects on the Company's ability to meet business objectives.

Various legal, compliance, sovereign, and regulatory risk obligations and concerns often intersect with the Company's core operational process risk areas. Given the scope of the Company's business and the number of countries in which it operates, this set of risks has the potential to affect the business locally, regionally, or globally.

Fraud, collateral, expenses, financing, liquidity, tax, and valuation risks are important to the operations of the Company and its ability to meet obligations with its clients, shareholders, and regulators.

Human capital, ratings, reputation, and strategy are core risks to managing the Company's brand and market confidence as well as maintaining its ability to acquire and retain the appropriate expertise to execute and operate the business.

New Accounting Standards

See Note 12 — "New Accounting Standards" in the Notes to Condensed Consolidated Financial Statements.

ITEM 3. Quantitative and Qualitative Disclosures About Market Risk

There has been no significant change in the Company's quantitative or qualitative aspects of market risk during the quarter ended March 31, 2017 from that disclosed in the 2016 Annual Report. See "Item 2 – Management's Discussion and Analysis of Financial Condition and Results of Operations – Market Risk", which is included herein, for additional information.

ITEM 4. Controls and Procedures

The Chief Executive Officer and the Chief Financial Officer have evaluated the effectiveness of the design and operation of the Company's disclosure controls and procedures as defined in Exchange Act Rule 13a-15(e) as of the end of the period covered by this report. Based on that evaluation, the Chief Executive Officer and the Chief Financial Officer concluded that these disclosure controls and procedures were effective.

There was no change in the Company's internal control over financial reporting as defined in Exchange Act Rule 13a-15(f) during the quarter ended March 31, 2017, that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting. **PART II - OTHER INFORMATION**

ITEM 1. Legal Proceedings

The Company is subject to litigation in the normal course of its business. The Company currently has no material litigation. A legal reserve is established when the Company is notified of an arbitration demand or litigation or is notified that an arbitration demand or litigation is imminent, it is probable that the Company will incur a loss as a result and the amount of the probable loss is reasonably capable of being estimated.

ITEM 1A. Risk Factors

There were no material changes from the risk factors disclosed in the 2016 Annual Report.

ITEM 2. Unregistered Sales of Equity Securities and Use of Proceeds

Issuer Purchases of Equity Securities

The following table summarizes RGA's repurchase activity of its common stock during the quarter ended March 31, 2017:

	Total Number of Shares Purchased ⁽¹⁾	Average Price Paid per Share		Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs ⁽¹⁾		Maximum Number (or Approximate Dollar Value) of Shares that May Yet Be Purchased Under the Plan or Program	
January 1, 2017 - January 31, 2017	14,737	\$	125.42	_	\$	400,000,000	
February 1, 2017 - February 28, 2017	6,559	\$	127.21	_	\$	400,000,000	
March 1, 2017 - March 31, 2017	3,126	\$	129.49	_	\$	400,000,000	

(1) RGA had no repurchases of common stock under its share repurchase program during January, February and March 2017. The Company net settled certain equity incentive awards - issuing 41,839, 19,529 and 9,569 shares from treasury and repurchasing from recipients 14,737, 6,559 and 3,126 shares in January, February and March, respectively, in settlement of income tax withholding requirements incurred by the recipients of such equity incentive awards.

On January 26, 2017, RGA's board of directors authorized a share repurchase program, with no expiration date, for up to \$400.0 million of RGA's outstanding common stock. In connection with this authorization, the board of directors terminated the stock repurchase authority granted in 2016.

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ITEM 6. Exhibits

See index to exhibits.

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.

Reinsurance Group of America, Incorporated

Date: May 4, 2017

By: <u>/s/ Anna Manning</u> Anna Manning President & Chief Executive Officer (Principal Executive Officer)

Date: May 4, 2017

By: <u>/s/ Todd C. Larson</u> Todd C. Larson Senior Executive Vice President & Chief Financial Officer (Principal Financial and Accounting Officer)

INDEX TO EXHIBITS

<u>Exhibit</u> <u>Number</u>	Description
3.1	Amended and Restated Articles of Incorporation, incorporated by reference to Exhibit 3.1 of Current Report on Form 8-K filed November 25, 2008.
3.2	Amended and Restated Bylaws, incorporated by reference to Exhibit 3.1 of Current Report on Form 8-K filed July 18, 2014.
31.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 302 of the Sarbanes-Oxley Act of 2002.
31.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 302 of the Sarbanes-Oxley Act of 2002.
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002.
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to section 906 of the Sarbanes-Oxley Act of 2002.
101.INS	XBRL Instance Document
101.SCH	XBRL Taxonomy Extension Schema Document
101.CAL	XBRL Taxonomy Extension Calculation Linkbase Document
101.LAB	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	XBRL Taxonomy Extension Presentation Linkbase Document
101.DEF	XBRL Taxonomy Extension Definition Linkbase Document

CEO CERTIFICATION

I, Anna Manning, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Reinsurance Group of America, Incorporated;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 4, 2017

<u>/s/ Anna Manning</u> Anna Manning President & Chief Executive Officer

CFO CERTIFICATION

I, Todd C. Larson, certify that:

1. I have reviewed this quarterly report on Form 10-Q of Reinsurance Group of America, Incorporated;

2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;

3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;

4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:

(a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;

(b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;

(c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and

(d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and

5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):

(a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and

(b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: May 4, 2017

<u>/s/ Todd C. Larson</u> Todd C. Larson Senior Executive Vice President & Chief Financial Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Reinsurance Group of America, Incorporated and subsidiaries, (the "Company"), for the quarterly period ended March 31, 2017, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Anna Manning, Chief Executive Officer of the Company, certifies, to her best knowledge and belief, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- 1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 4, 2017

<u>/s/ Anna Manning</u> Anna Manning President & Chief Executive Officer

CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

In connection with the Quarterly Report on Form 10-Q of Reinsurance Group of America, Incorporated and subsidiaries, (the "Company"), for the quarterly period ended March 31, 2017, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), Todd C. Larson, Chief Financial Officer of the Company, certifies, to his best knowledge and belief, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

- 1. The Report fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934; and
- 2. The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 4, 2017

<u>/s/ Todd C. Larson</u> Todd C. Larson Chief Financial Officer & Senior Executive Vice President