

VALIDUS HOLDINGS LTD
Form 10-Q
August 05, 2016
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

Form 10-Q

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

For the quarterly period ended June 30, 2016

Commission file number 001-33606

VALIDUS HOLDINGS, LTD.
(Exact name of registrant as specified in its charter)

BERMUDA 98-0501001
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)
29 Richmond Road, Pembroke, Bermuda HM 08
(Address of principal executive offices and zip code)
(441) 278-9000
(Registrant's telephone number, including area code)

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

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

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

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

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

As of August 3, 2016 there were 80,337,635 outstanding Common Shares, \$0.175 par value per share, of the registrant.

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PART I. FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

Validus Holdings, Ltd.

Consolidated Balance Sheets

As at June 30, 2016 (unaudited) and December 31, 2015

(Expressed in thousands of U.S. dollars, except share and per share information)

	June 30, 2016 (unaudited)	December 31, 2015
Assets		
Fixed maturities trading, at fair value (amortized cost: 2016—\$5,524,027; 2015—\$5,556,965)	\$5,511,586	\$5,510,331
Short-term investments trading, at fair value (amortized cost: 2016—\$2,369,704; 2015—\$1,941,615)	2,369,654	1,941,635
Other investments, at fair value (cost: 2016—\$338,669; 2015—\$315,963)	359,526	336,856
Cash and cash equivalents	568,798	723,109
Restricted cash	96,022	73,270
Total investments and cash	8,945,586	8,585,201
Investments in affiliates, equity method (cost: 2016—\$86,101; 2015—\$70,186)	99,278	88,065
Premiums receivable	1,372,000	658,682
Deferred acquisition costs	283,213	181,002
Prepaid reinsurance premiums	145,567	77,992
Securities lending collateral	10,224	4,863
Loss reserves recoverable	442,987	350,586
Paid losses recoverable	27,648	23,071
Income taxes recoverable	8,526	16,228
Deferred tax asset	23,745	21,661
Receivable for investments sold	13,736	39,766
Intangible assets	118,426	121,258
Goodwill	196,758	196,758
Accrued investment income	24,925	23,897
Other assets	105,625	126,782
Total assets	\$11,818,244	\$10,515,812
Liabilities		
Reserve for losses and loss expenses	\$3,122,717	\$2,996,567
Unearned premiums	1,621,563	966,210
Reinsurance balances payable	92,488	75,380
Securities lending payable	10,690	5,329
Deferred tax liability	3,552	3,847
Payable for investments purchased	52,718	77,475
Accounts payable and accrued expenses	149,593	627,331
Notes payable to AlphaCat investors	370,982	75,493
Senior notes payable	245,261	245,161
Debentures payable	537,987	537,668
Total liabilities	\$6,207,551	\$5,610,461
Commitments and contingent liabilities		
Redeemable noncontrolling interest	1,532,283	1,111,714

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Shareholders' equity		
Preferred shares (Issued and Outstanding: 2016—6,000; 2015—nil)	\$ 150,000	\$—
Common shares (Issued: 2016—161,252,871; 2015—160,570,772; Outstanding: 2016—80,772,238; 2015—82,900,617)	28,219	28,100
Treasury shares (2016—80,480,633; 2015—77,670,155)	(14,084) (13,592)
Additional paid-in capital	883,701	1,002,980
Accumulated other comprehensive loss	(18,182) (12,569)
Retained earnings	2,836,602	2,634,056
Total shareholders' equity available to Validus	3,866,256	3,638,975
Noncontrolling interest	212,154	154,662
Total shareholders' equity	\$4,078,410	\$3,793,637

Total liabilities, noncontrolling interests and shareholders' equity \$11,818,244 \$10,515,812

The accompanying notes are an integral part of these Consolidated Financial Statements (unaudited).

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Validus Holdings, Ltd.

Consolidated Statements of Comprehensive Income

For the Three and Six Months Ended June 30, 2016 and 2015 (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
	(unaudited)	(unaudited)	(unaudited)	(unaudited)
Revenues				
Gross premiums written	\$764,042	\$726,168	\$1,936,833	\$1,845,392
Reinsurance premiums ceded	(36,229)	(55,418)	(204,064)	(246,743)
Net premiums written	727,813	670,750	1,732,769	1,598,649
Change in unearned premiums	(154,090)	(98,062)	(587,778)	(450,071)
Net premiums earned	573,723	572,688	1,144,991	1,148,578
Net investment income	39,257	33,611	68,718	64,640
Net realized gains on investments	2,724	2,244	2,140	6,413
Change in net unrealized gains (losses) on investments	31,428	(34,676)	78,872	(1,449)
(Loss) income from investment affiliate	(589)	284	(4,702)	3,060
Other insurance related income and other income	824	100	2,237	1,040
Foreign exchange gains (losses)	6,286	(2,671)	12,531	(6,936)
Total revenues	653,653	571,580	1,304,787	1,215,346
Expenses				
Losses and loss expenses	307,130	266,146	531,577	507,075
Policy acquisition costs	107,966	104,323	215,159	202,734
General and administrative expenses	89,688	84,025	175,896	168,260
Share compensation expenses	10,727	9,242	21,964	18,296
Finance expenses	14,166	18,682	29,369	39,649
Total expenses	529,677	482,418	973,965	936,014
Income before taxes, income from operating affiliates and (income) attributable to AlphaCat investors	123,976	89,162	330,822	279,332
Tax (expense) benefit	(1,706)	(2,549)	412	(5,114)
Income (loss) from operating affiliates	—	1,738	(23)	5,722
(Income) attributable to AlphaCat investors	(6,114)	—	(10,714)	—
Net income	\$116,156	\$88,351	\$320,497	\$279,940
Net (income) attributable to noncontrolling interest	(21,193)	(22,561)	(58,724)	(40,739)
Net income available to Validus	94,963	65,790	261,773	239,201
Dividends on preferred shares	—	—	—	—
Net income available to Validus common shareholders	\$94,963	\$65,790	\$261,773	\$239,201
Comprehensive income				
Net income	\$116,156	\$88,351	\$320,497	\$279,940
Other comprehensive (loss) income				
Change in foreign currency translation adjustments	(3,287)	2,763	(5,315)	(256)
Change in minimum pension liability, net of tax	479	422	396	157
Change in fair value of cash flow hedge	64	390	(694)	(411)
Other comprehensive (loss) income	(2,744)	3,575	(5,613)	(510)
Comprehensive (income) attributable to noncontrolling interest	(21,193)	(22,561)	(58,724)	(40,739)

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Comprehensive income available to Validus	\$92,219	\$69,365	\$256,160	\$238,691
Earnings per share				
Weighted average number of common shares and common share equivalents outstanding				
Basic	81,950,833	84,003,549	82,386,047	83,627,396
Diluted	83,373,003	87,313,154	83,785,659	87,448,142
Basic earnings per share available to Validus common shareholders	\$1.16	\$0.77	\$3.18	\$2.83
Earnings per diluted share available to Validus common shareholders	\$1.14	\$0.75	\$3.12	\$2.74
Cash dividends declared per common share	\$0.35	\$0.32	\$0.70	\$0.64

The accompanying notes are an integral part of these Consolidated Financial Statements (unaudited).

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Validus Holdings, Ltd.
 Consolidated Statements of Shareholders' Equity
 For the Six Months Ended June 30, 2016 and 2015 (unaudited)
 (Expressed in thousands of U.S. dollars)

	Six Months Ended June 30,	
	2016	2015
	(unaudited)	(unaudited)
Preferred shares		
Balance - beginning of period	\$—	\$—
Preferred shares issued	150,000	—
Balance - end of period	\$150,000	\$—
Common shares		
Balance - beginning of period	\$28,100	\$27,222
Common shares issued, net	119	494
Balance - end of period	\$28,219	\$27,716
Treasury shares		
Balance - beginning of period	\$(13,592)	\$(12,545)
Repurchase of common shares	(492)	(595)
Balance - end of period	\$(14,084)	\$(13,140)
Additional paid-in capital		
Balance - beginning of period	\$1,002,980	\$1,207,493
Offering expenses on preferred shares	(5,148)	—
Common shares issued, net	(7,504)	14,366
Repurchase of common shares	(128,591)	(142,628)
Share compensation expenses	21,964	18,296
Balance - end of period	\$883,701	\$1,097,527
Accumulated other comprehensive loss		
Balance - beginning of period	\$(12,569)	\$(8,556)
Other comprehensive loss	(5,613)	(510)
Balance - end of period	\$(18,182)	\$(9,066)
Retained earnings		
Balance - beginning of period	\$2,634,056	\$2,372,972
Dividends on preferred shares	—	—
Dividends on common shares	(59,227)	(57,874)
Net income	320,497	279,940
Net (income) attributable to noncontrolling interest	(58,724)	(40,739)
Balance - end of period	\$2,836,602	\$2,554,299
Total shareholders' equity available to Validus	\$3,866,256	\$3,657,336
Noncontrolling interest	\$212,154	\$153,523
Total shareholders' equity	\$4,078,410	\$3,810,859

The accompanying notes are an integral part of these Consolidated Financial Statements (unaudited).

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Validus Holdings, Ltd.
Consolidated Statements of Cash Flows
For the Six Months Ended June 30, 2016 and 2015 (unaudited)
(Expressed in thousands of U.S. dollars)

	Six Months Ended June 30,	
	2016	2015
	(unaudited)(unaudited)	
Cash flows provided by operating activities		
Net income	\$ 320,497	\$ 279,940
Adjustments to reconcile net income to cash provided by operating activities:		
Share compensation expenses	21,964	18,296
Amortization of discount on senior notes	54	54
Loss (income) from investment affiliate	4,702	(3,060)
Net realized gains on investments	(2,140)	(6,413)
Change in net unrealized (gains) losses on investments	(78,872)	1,449
Amortization of intangible assets	2,832	2,832
Loss (income) from operating affiliates	23	(5,722)
Foreign exchange (gains) losses included in net income	(6,289)	7,729
Amortization of premium on fixed maturity investments	8,710	12,395
Change in:		
Premiums receivable	(719,070)	(566,100)
Deferred acquisition costs	(102,211)	(92,020)
Prepaid reinsurance premiums	(67,575)	(79,304)
Loss reserves recoverable	(95,429)	644
Paid losses recoverable	(4,571)	(2,253)
Income taxes recoverable	7,423	(13,931)
Deferred tax asset	(2,529)	908
Accrued investment income	(1,183)	984
Other assets	(5,272)	90,625
Reserve for losses and loss expenses	147,305	(50,240)
Unearned premiums	655,353	529,374
Reinsurance balances payable	18,610	(34,472)
Deferred tax liability	(308)	2,329
Accounts payable and accrued expenses	(32,581)	(61,570)
Net cash provided by operating activities	69,443	32,474
Cash flows used in investing activities		
Proceeds on sales of fixed maturity investments	1,376,077	2,237,966
Proceeds on maturities of fixed maturity investments	184,413	186,594
Purchases of fixed maturity investments	(1,537,608)	(2,337,990)
Purchases of short-term investments, net	(428,040)	(154,804)
(Purchases) sales of other investments, net	(19,796)	4,101
Increase in securities lending collateral	(5,361)	(6,551)
Redemption from operating affiliates	369	—
Investment in investment affiliates, net	(16,305)	(23,115)
(Increase) decrease in restricted cash	(22,752)	32,984
Net cash used in investing activities	(469,003)	(60,815)

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Cash flows provided by (used in) financing activities		
Net proceeds on issuance of notes payable to AlphaCat investors	294,748	—
Net proceeds on issuance of preferred shares	144,852	—
Issuance of common shares, net	(7,385)	14,860
Purchases of common shares under share repurchase program	(129,083)	(143,223)
Dividends paid on preferred shares	—	—
Dividends paid on common shares	(59,961)	(58,718)
Increase in securities lending payable	5,361	6,551
Third party investment in redeemable noncontrolling interest	381,250	452,700
Third party redemption of redeemable noncontrolling interest	(10,800)	(80,433)
Third party investment in noncontrolling interest	171,674	9,600
Third party distributions of noncontrolling interest	(127,103)	(158,175)
Third party subscriptions deployed on AlphaCat Funds and Sidecars	(411,336)	(117,400)
Net cash provided by (used in) financing activities	252,217	(74,238)
Effect of foreign currency rate changes on cash and cash equivalents		
	(6,968)	(8,730)
Net decrease in cash and cash equivalents	(154,311)	(111,309)
Cash and cash equivalents - beginning of period	723,109	550,401
Cash and cash equivalents - end of period	\$568,798	\$439,092
Taxes paid during the period	\$3,837	\$14,192
Interest paid during the period	\$27,552	\$27,248
The accompanying notes are an integral part of these Consolidated Financial Statements (unaudited).		

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

1. Basis of preparation and consolidation

These unaudited Consolidated Financial Statements (the "Consolidated Financial Statements") have been prepared in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") for interim financial information and with the instructions to Form 10-Q and Article 10 in Regulation S-X. Accordingly, they do not include all of the information and footnotes required by U.S. GAAP for complete financial statements. In addition, the year-end balance sheet data was derived from audited financial statements but does not include all disclosures required by U.S. GAAP. This Quarterly Report on Form 10-Q should be read in conjunction with the financial statements and related notes included in the Company's Annual Report on Form 10-K for the year ended December 31, 2015, as filed with the U.S. Securities and Exchange Commission (the "SEC").

The Company consolidates in these Consolidated Financial Statements the results of operations and financial position of all voting interest entities ("VOE") in which the Company has a controlling financial interest and all variable interest entities ("VIE") in which the Company is considered to be the primary beneficiary. The consolidation assessment, including the determination as to whether an entity qualifies as a VIE or VOE, depends on the facts and circumstances surrounding each entity.

During the fourth quarter of 2015, the Company early adopted Accounting Standards Update ("ASU") 2015-02, "Consolidation (Topic 810) Amendments to the Consolidation Analysis" issued by the United States Financial Accounting Standards Board ("FASB"), which changed the method in which the Company determines whether entities are consolidated by the Company. The adoption of this amended accounting guidance was implemented utilizing a full retrospective application for all periods presented in the Company's Consolidated Financial Statements.

The amended guidance includes changes in the identification of the primary beneficiary of investment companies considered to be VIEs. These changes resulted in the Company concluding that it is considered to be the primary beneficiary of the AlphaCat sidecars, the AlphaCat ILS funds and the BetaCat ILS funds and therefore the Company is required to consolidate these entities. The adoption of the amended guidance also resulted in the Company concluding that it was no longer required to consolidate PaCRe Ltd. ("PaCRe") due to the change in the VIE definition of "kick-out" rights under the amended guidance. The cumulative effect of these changes on the Company's retained earnings through the six months ended June 30, 2015 was a gain of \$405.

The following tables present the impact of the application of the amended accounting guidance on the Company's Consolidated Statements of Comprehensive Income for the three and six months ended June 30, 2015 and Consolidated Statement of Cash Flows for the six months ended June 30, 2015:

	Three Months Ended June 30, 2015		
	As	Adjustment	
	previously	for adoption	Revised
	reported	of new	
		consolidation	
		guidance	
Total revenues	\$591,492	\$ (19,912)	\$571,580
Total expenses	480,511	1,907	482,418
Net income	81,657	6,694	88,351
Net (income) attributable to noncontrolling interest	(17,644)	(4,917)	(22,561)
Net income available to Validus	64,013	1,777	65,790
Comprehensive income available to Validus	67,588	1,777	69,365
Basic earnings per share available to common shareholders	\$0.75	\$ 0.02	\$0.77

Earnings per diluted share available to common shareholders \$0.73 \$ 0.02 \$0.75

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

	Six Months Ended June 30, 2015		
	As previously reported	Adjustment for adoption of new consolidation guidance	Revised
Total revenues	\$ 1,280,697	\$ (65,351)	\$ 1,215,346
Total expenses	934,010	2,004	936,014
Net income	294,045	(14,105)	279,940
Net (income) attributable to noncontrolling interest	(56,621)	15,882	(40,739)
Net income available to Validus	237,424	1,777	239,201
Comprehensive income available to Validus	236,914	1,777	238,691
Basic earnings per share available to common shareholders	\$ 2.81	\$ 0.02	\$ 2.83
Earnings per diluted share available to common shareholders	\$ 2.72	\$ 0.02	\$ 2.74

Six Months Ended June 30, 2015

	As previously reported	Adjustment for adoption of new consolidation guidance	Revised
Net cash (used in) provided by operating activities	\$ (228,841)	\$ 261,315	\$ 32,474
Net cash used in investing activities	(290,517)	229,702	(60,815)
Net cash provided by (used in) financing activities	389,593	(463,831)	(74,238)
Effect of foreign currency rate changes on cash and cash equivalents	(13,765)	5,035	(8,730)
Net decrease in cash	(143,530)	32,221	(111,309)
Cash and cash equivalents - beginning of period	577,240	(26,839)	550,401
Cash and cash equivalents - end of period	433,710	5,382	439,092

In the opinion of management, these Consolidated Financial Statements reflect all adjustments (including normal recurring adjustments) considered necessary for a fair statement of the Company's financial position and results of operations as at the end of and for the periods presented. All significant intercompany accounts and transactions have been eliminated. The results of operations for any interim period are not necessarily indicative of the results for a full year.

The preparation of these financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. While management believes that the amounts included in the Consolidated Financial Statements reflect its best estimates and assumptions, actual results could differ materially from those estimates. The Company's principal estimates include:

- reserve for losses and loss expenses;
- premium estimates for business written on a line slip or proportional basis;
- the valuation of goodwill and intangible assets;
- reinsurance recoverable balances including the provision for uncollectible amounts; and
- investment valuation of financial assets.

The term "ASC" used in these notes refers to Accounting Standard Codification issued by the FASB.

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

2. Recent accounting pronouncements

Recently Issued Accounting Standards Not Yet Adopted

In May 2014, the FASB issued ASU 2014-09, “Revenue from Contracts with Customers (Topic 606)” (ASU 2014-09). The guidance in this ASU affects any entity that either enters into contracts with customers to transfer goods or services or enters into contracts for the transfer of nonfinancial assets, unless those contracts are within the scope of other standards (for example, insurance contracts or lease contracts). The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. In March and April 2016, the FASB issued ASU 2016-08, “Revenue from Contracts with Customers (Topic 606) - Principal versus Agent Considerations (Reporting Revenue Gross versus Net)” and ASU 2016-10, “Revenue from Contracts with Customers (Topic 606) - Identifying Performance Obligations and Licensing”. The amendments in these ASU's clarify the implementation guidance within ASU 2014-09 on principal versus agent considerations and the aspects of identifying performance obligations, respectively, while retaining the related principals in those areas. In May 2016, the FASB issued ASU 2016-12, “Revenue from Contracts with Customers (Topic 606) - Narrow-Scope Improvements and Practical Expedients”. The amendments in this ASU do not change the core principle of the guidance in Topic 606. Rather, the amendments provide clarifying guidance in a few narrow areas and add practical expedients to reduce the potential for diversity in practice as well as the cost and complexity of applying the guidance. The original effective date for the amendments in ASU 2014-09 was for annual reporting periods beginning after December 15, 2016; however, in August 2015, the FASB delayed the effective date by one year through the issuance of ASU 2015-14, “Revenue from Contracts with Customers (Topic 606): Deferral of the Effective Date”. As such, the new effective date is for interim and annual reporting periods beginning after December 15, 2017. Entities may adopt the standard as of the original effective date; however, earlier adoption is not permitted. The Company is currently evaluating the impact of this guidance on the Company’s Consolidated Financial Statements.

In February 2016, the FASB issued ASU 2016-02, “Leases (Topic 842)”. The amendments in this ASU increase the transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and requiring the disclosure of key information about leasing arrangements. The amendments in this ASU are effective for interim and annual reporting periods beginning after December 15, 2018. Early adoption is permitted. The Company is currently evaluating the impact of this guidance on the Company’s Consolidated Financial Statements.

In March 2016, the FASB issued ASU 2016-09, “Compensation-Stock Compensation (Topic 718) - Improvements to Employee Share-Based Payment Accounting”. The amendments in this ASU simplify several aspects of the accounting for share-based payment transactions, including the income tax consequences, classification of awards as either equity or liabilities and classification on the statement of cash flows. The amendments in this ASU are effective for interim and annual reporting periods beginning after December 15, 2016. Early adoption is permitted. The Company is currently evaluating the impact of this guidance on the Company’s Consolidated Financial Statements.

In June 2016, the FASB issued ASU 2016-13, “Financial Instruments - Credit Losses (Topic 326)”. The new guidance introduces an approach based on expected losses to estimate credit losses on certain types of financial instruments. It also modifies the impairment model for available-for-sale debt securities and provides for a simplified accounting model for purchased financial assets with credit deterioration since their origination. This guidance is effective for annual periods beginning after December 15, 2019, and interim periods within those fiscal years. Early adoption is permitted for annual periods beginning after December 15, 2018, and interim periods within those fiscal years. The Company is currently evaluating the impact of this guidance on the Company’s Consolidated Financial Statements.

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

3. Investments

During the fourth quarter of 2015, the Company enhanced disclosures around the allocation of invested assets and the related returns between managed and non-managed investments. Managed investments represent assets governed by the Company's investment policy statement ("IPS"), whereas non-managed investments represent assets held in support of consolidated AlphaCat VIEs which are not governed by the Company's IPS. Refer to Note 5, "Variable interest entities," for further details. As such, prior period disclosures have been revised to conform to current period presentation.

The Company classifies its fixed maturity and short-term investments as trading and accounts for its other investments in accordance with U.S. GAAP guidance for "Financial Instruments." As such, all investments are carried at fair value with interest and dividend income and realized and unrealized gains and losses included in net income for the period. The amortized cost (or cost), gross unrealized gains and (losses) and fair value of the Company's investments as at June 30, 2016 were as follows:

	Amortized Cost (or Cost)	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Managed investments				
U.S. government and government agency	\$ 924,350	\$ 7,536	\$ (83)	\$ 931,803
Non-U.S. government and government agency	217,796	2,146	(4,692)	215,250
U.S. states, municipalities, political subdivisions	278,756	7,049	(393)	285,412
Agency residential mortgage-backed securities	662,468	14,713	(398)	676,783
Non-agency residential mortgage-backed securities	23,858	271	(740)	23,389
U.S. corporate	1,539,711	20,350	(4,014)	1,556,047
Non-U.S. corporate	367,473	3,264	(6,331)	364,406
Bank loans	613,414	574	(16,926)	597,062
Asset-backed securities	429,890	2,352	(2,902)	429,340
Commercial mortgage-backed securities	308,712	6,048	(727)	314,033
Total fixed maturities	5,366,428	64,303	(37,206)	5,393,525
Short-term investments	189,678	—	(50)	189,628
Other investments				
Fund of hedge funds	1,457	—	(498)	959
Hedge funds	12,463	6,162	—	18,625
Private equity investments	62,119	14,457	(3,270)	73,306
Investment funds	203,128	743	—	203,871
Overseas deposits	55,301	—	—	55,301
Mutual funds	4,201	3,263	—	7,464
Total other investments	338,669	24,625	(3,768)	359,526
Total managed investments	\$ 5,894,775	\$ 88,928	\$ (41,024)	\$ 5,942,679
Non-managed investments				
Catastrophe bonds	\$ 157,599	\$ 2,114	\$ (1,652)	\$ 158,061
Short-term investments	2,180,026	—	—	2,180,026
Total non-managed investments	2,337,625	2,114	(1,652)	2,338,087
Total investments	\$ 8,232,400	\$ 91,042	\$ (42,676)	\$ 8,280,766

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The amortized cost (or cost), gross unrealized gains and (losses) and fair value of the Company's investments as at December 31, 2015 were as follows:

	Amortized Cost (or Cost)	Gross Unrealized Gains	Gross Unrealized Losses	Fair Value
Managed investments				
U.S. government and government agency	\$ 940,428	\$ 333	\$ (3,559)	\$ 937,202
Non-U.S. government and government agency	241,549	257	(3,838)	237,968
U.S. states, municipalities, political subdivisions	299,929	2,322	(962)	301,289
Agency residential mortgage-backed securities	606,676	6,361	(2,455)	610,582
Non-agency residential mortgage-backed securities	27,025	310	(415)	26,920
U.S. corporate	1,503,614	1,594	(15,257)	1,489,951
Non-U.S. corporate	453,178	797	(7,405)	446,570
Bank loans	592,981	275	(17,045)	576,211
Asset-backed securities	440,363	344	(3,583)	437,124
Commercial mortgage-backed securities	263,310	131	(3,306)	260,135
Total fixed maturities	5,369,053	12,724	(57,825)	5,323,952
Short-term investments	237,349	20	—	237,369
Other investments				
Fund of hedge funds	1,457	—	(40)	1,417
Hedge funds	14,018	6,962	—	20,980
Private equity investments	53,489	12,751	(2,469)	63,771
Investment funds	188,121	600	—	188,721
Overseas deposits	54,484	—	—	54,484
Mutual funds	4,394	3,089	—	7,483
Total other investments	315,963	23,402	(2,509)	336,856
Total managed investments	\$ 5,922,365	\$ 36,146	\$ (60,334)	\$ 5,898,177
Non-managed investments				
Catastrophe bonds	\$ 187,847	\$ 635	\$ (2,103)	\$ 186,379
Short-term investments	1,704,266	—	—	1,704,266
Total non-managed investments	1,892,113	635	(2,103)	1,890,645
Total investments	\$ 7,814,478	\$ 36,781	\$ (62,437)	\$ 7,788,822

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

(a) Fixed maturity investments

The following table sets forth certain information regarding the investment ratings of the Company's fixed maturity investments as at June 30, 2016 and December 31, 2015.

	June 30, 2016		December 31, 2015	
	Fair Value	% of Total	Fair Value	% of Total
Managed fixed maturities				
AAA	\$2,446,839	44.1 %	\$2,367,642	43.0 %
AA	508,086	9.2 %	569,386	10.3 %
A	1,045,965	18.8 %	1,031,326	18.7 %
BBB	741,800	13.4 %	691,538	12.6 %
Total investment grade managed fixed maturities	4,742,690	85.5 %	4,659,892	84.6 %
BB	227,436	4.0 %	235,724	4.3 %
B	183,127	3.3 %	179,069	3.2 %
CCC	8,331	0.2 %	5,706	0.1 %
CC	113	0.0 %	1,015	0.0 %
NR	231,828	4.2 %	242,546	4.4 %
Total non-investment grade managed fixed maturities	650,835	11.7 %	664,060	12.0 %
Total managed fixed maturities	\$5,393,525	97.2 %	\$5,323,952	96.6 %
Non-managed catastrophe bonds				
BBB	\$—	0.0 %	\$1,911	0.0 %
Total investment grade non-managed catastrophe bonds	—	0.0 %	1,911	0.0 %
BB	41,412	0.7 %	70,962	1.3 %
B	6,161	0.1 %	30,698	0.6 %
NR	110,488	2.0 %	82,808	1.5 %
Total non-investment grade non-managed catastrophe bonds	158,061	2.8 %	184,468	3.4 %
Total non-managed fixed maturities	158,061	2.8 %	186,379	3.4 %
Total fixed maturities	\$5,551,586	100.0 %	\$5,510,331	100.0 %

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

The amortized cost and fair value amounts for the Company's fixed maturity investments held at June 30, 2016 and December 31, 2015 are shown below by contractual maturity. Actual maturity may differ from contractual maturity because certain borrowers may have the right to call or prepay certain obligations with or without call or prepayment penalties.

	June 30, 2016		December 31, 2015	
	Amortized Cost	Fair Value	Amortized Cost	Fair Value
Managed investments				
Due in one year or less	\$349,115	\$348,137	\$367,132	\$366,019
Due after one year through five years	2,990,421	2,996,295	2,965,920	2,936,053
Due after five years through ten years	485,899	492,101	548,183	539,083
Due after ten years	116,065	113,447	150,444	148,036
	3,941,500	3,949,980	4,031,679	3,989,191
Asset-backed and mortgage-backed securities	1,424,928	1,443,545	1,337,374	1,334,761
Total managed fixed maturities	\$5,366,428	\$5,393,525	\$5,369,053	\$5,323,952
Non-managed catastrophe bonds				
Due in one year or less	\$28,445	\$29,328	\$7,504	\$7,544
Due after one year through five years	128,614	128,185	165,093	163,575
Due after five years through ten years	540	548	15,250	15,260
Due after ten years	—	—	—	—
Total non-managed fixed maturities	157,599	158,061	187,847	186,379
Total fixed maturities	\$5,524,027	\$5,551,586	\$5,556,900	\$5,510,331

(b) Other investments

The following tables set forth certain information regarding the Company's other investment portfolio as at June 30, 2016 and December 31, 2015:

Other investments	Fair Value as at June 30, 2016	Investments with redemption restrictions	Investments without redemption restrictions	Redemption frequency (a)	Redemption notice period (a)
Fund of hedge funds	\$959	\$ 959	\$ —		
Hedge funds	18,625	18,625	—		
Private equity investments	73,306	73,306	—		
Investment funds	203,871	181,536	22,335	Daily	2 days
Overseas deposits	55,301	55,301	—		
Mutual funds	7,464	—	7,464	Daily	Daily
Total other investments	\$359,526	\$ 329,727	\$ 29,799		

(a) The redemption frequency and notice periods only apply to investments without redemption restrictions.

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

Other investments	Fair value as at December 31, 2015	Investments with redemption restrictions	Investments without redemption restrictions	Redemption frequency (a)	Redemption notice period (a)
Fund of hedge funds	\$ 1,417	\$ 1,417	\$ —		
Hedge funds	20,980	20,980	—		
Private equity investments	63,771	63,771	—		
Investment funds	188,721	167,910	20,811	Daily	2 days
Overseas deposits	54,484	54,484	—		
Mutual funds	7,483	—	7,483	Daily	Daily
Total other investments	\$ 336,856	\$ 308,562	\$ 28,294		

(a) The redemption frequency and notice periods only apply to investments without redemption restrictions.

Other investments include alternative investments in various funds and pooled investment schemes. These alternative investments employ various investment strategies primarily involving, but not limited to, investments in collateralized obligations, fixed income securities, private equities, distressed debt and equity securities.

Certain securities included in other investments are subject to redemption restrictions and are unable to be redeemed from the funds. Distributions from these funds will be received as the underlying investments of the funds are liquidated. Currently, it is not known to the Company when these underlying assets will be sold by their investment managers; however, it is estimated that the majority of the underlying assets of the investments would liquidate over five to ten years from inception of the funds. In addition, one of the investment funds with a fair value of \$171,187 (December 31, 2015: \$167,910), has a lock-up period of three years as at June 30, 2016 and may also impose a redemption gate. A lock-up period refers to the initial amount of time an investor is contractually required to remain invested before having the ability to redeem. Typically, the imposition of a gate delays a portion of the requested redemption, with the remaining portion settled in cash shortly after the redemption date. Furthermore, the underlying investments held in the overseas deposit funds are liquid and will generally trade freely in an open market. However, the Company's ability to withdraw from the overseas deposit funds is restricted by an annual and quarterly funding and release process for Lloyd's market participants.

The Company's maximum exposure to any of these alternative investments is limited to the amount invested and any remaining capital commitments. Refer to Note 15, "Commitments and contingencies," for further details. As at June 30, 2016, the Company does not have any plans to sell any of the other investments listed above.

(c) Net investment income

Net investment income was derived from the following sources:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Managed investments				
Fixed maturities and short-term investments	\$30,621	\$29,433	\$58,638	\$57,106
Other investments	8,026	4,014	8,898	7,202
Restricted cash, cash and cash equivalents	380	427	1,245	843
Securities lending income	12	6	17	9
Total gross investment income	39,039	33,880	68,798	65,160
Investment expenses	(2,190)	(2,026)	(4,026)	(3,870)
Total managed net investment income	\$36,849	\$31,854	\$64,772	\$61,290

Non managed investments

Fixed maturities and short-term investments	\$1,977	\$1,733	\$3,272	\$3,307
Restricted cash, cash and cash equivalents	431	24	674	43
Total non-managed net investment income	2,408	1,757	3,946	3,350
Total net investment income	\$39,257	\$33,611	\$68,718	\$64,640

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

Managed net investment income from other investments includes distributed and undistributed net income from certain investment funds.

(d) Net realized gains and change in net unrealized gains (losses) on investments

The following represents an analysis of net realized gains and the change in net unrealized gains (losses) on investments:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Managed fixed maturities, short-term and other investments				
Gross realized gains	\$3,306	\$6,140	\$6,523	\$12,449
Gross realized (losses)	(786)	(4,036)	(5,089)	(6,165)
Net realized gains on investments	2,520	2,104	1,434	6,284
Change in net unrealized gains (losses) on investments	30,052	(33,926)	77,130	743
Total net realized and change in net unrealized gains (losses) on managed investments	\$32,572	\$(31,822)	\$78,564	\$7,027
Non-managed fixed maturities, short-term and other investments				
Gross realized gains	\$204	\$140	\$715	\$140
Gross realized (losses)	—	—	(9)	(11)
Net realized gains on investments	204	140	706	129
Change in net unrealized (losses) on investments	1,376	(750)	1,742	(2,192)
Total net realized and change in net unrealized (losses) on non-managed investments	1,580	(610)	2,448	(2,063)
Total net realized and change in net unrealized gains (losses) on total investments	\$34,152	\$(32,432)	\$81,012	\$4,964

(e) Pledged investments

The following tables outline investments and cash pledged as collateral under the Company's credit facilities. For further details on the credit facilities, please refer to Note 13, "Debt and financing arrangements."

June 30, 2016

Description	Commitment	Issued and Outstanding	Investments and cash pledged as collateral
\$85,000 syndicated unsecured letter of credit facility	\$85,000	\$ —	\$ —
\$300,000 syndicated secured letter of credit facility	300,000	105,575	151,166
\$24,000 secured bi-lateral letter of credit facility	24,000	11,805	48,380
AlphaCat Re secured letter of credit facility	20,000	20,000	30,191
IPC bi-lateral facility	25,000	5,666	—
\$236,000 Flagstone bi-lateral facility	236,000	195,622	322,520
Total	\$690,000	\$ 338,668	\$ 552,257

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

Description	December 31, 2015		
	Commitment	Issued and Outstanding	Investments and cash pledged as collateral
\$85,000 syndicated unsecured letter of credit facility	\$85,000	\$ —	\$ —
\$300,000 syndicated secured letter of credit facility	300,000	235,540	370,909
\$24,000 secured bi-lateral letter of credit facility	24,000	10,543	47,607
AlphaCat Re secured letter of credit facility	30,000	30,000	30,153
IPC bi-lateral facility	25,000	9,241	—
\$236,000 Flagstone bi-lateral facility	236,000	193,764	377,866
Total	\$700,000	\$ 479,088	\$ 826,535

In addition, \$4,687,599 of cash and cash equivalents, restricted cash, short-term investments and fixed maturity investments were pledged during the normal course of business as at June 30, 2016 (December 31, 2015: \$4,056,788). Of those, \$4,564,394 were held in trust (December 31, 2015: \$4,007,215). Pledged assets are generally for the benefit of the Company's cedants and policyholders, to support AlphaCat's fully collateralized reinsurance transactions and to facilitate the accreditation of Validus Reinsurance, Ltd., Validus Reinsurance (Switzerland) Ltd. ("Validus Re Swiss") and Talbot as an alien insurer/reinsurer by certain regulators.

During December 2014, Validus Reinsurance, Ltd. established a Multi-Beneficiary Reinsurance Trust ("MBRT") to collateralize its (re)insurance liabilities associated with and for the benefit of U.S. domiciled cedants, and was approved as a trustee reinsurer in the State of New Jersey. As a result, cedants domiciled in that state will receive automatic credit in their regulatory filings for the reinsurance provided prospectively by the Company. As of June 30, 2016, Validus Reinsurance, Ltd. was approved as a trustee reinsurer in 48 states as well as Puerto Rico and the District of Columbia. In addition, Validus Re Swiss established a MBRT in December 2015 and was approved as a trustee reinsurer in 9 states as at June 30, 2016.

4. Fair value measurements

(a) Classification within the fair value hierarchy

Fair value is defined as the price to sell an asset or transfer a liability in an orderly transaction between market participants. Under U.S. GAAP, a company must determine the appropriate level in the fair value hierarchy for each fair value measurement. The fair value hierarchy prioritizes the inputs, which refer broadly to assumptions market participants would use in pricing an asset or liability, into three levels. It gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. The level in the fair value hierarchy within which a fair value measurement in its entirety falls is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

The three levels of the fair value hierarchy are described below:

Level 1 - Fair values are measured based on unadjusted quoted prices in active markets for identical assets or liabilities that we have the ability to access.

Level 2 - Fair values are measured based on quoted prices in active markets for similar assets or liabilities, quoted prices for identical assets or liabilities in inactive markets, or for which significant inputs are observable (e.g., interest rates, yield curves, prepayment speeds, default rates, loss severities, etc.) or can be corroborated by observable market data.

Level 3 - Fair values are measured based on inputs that are unobservable and significant to the overall fair value measurement. The unobservable inputs reflect the Company's own judgments about assumptions where there is little,

if any, market activity for that asset or liability that market participants might use.

The availability of observable inputs can vary from financial instrument to financial instrument and is affected by a wide variety of factors including, for example, the type of financial instrument, whether the financial instrument is new and not yet established in the marketplace, and other characteristics particular to the instrument. To the extent that valuation is based on models or inputs that are less observable or unobservable in the market, the determination of fair value requires significantly more judgment.

Accordingly, the degree of judgment exercised by management in determining fair value is greatest for instruments categorized in Level 3. In periods of market dislocation, the observability of prices and inputs may be reduced for many instruments. This may lead the Company to change the selection of our valuation technique (for example, from market to cash flow approach) or to use multiple valuation techniques to estimate the fair value of a financial instrument. These circumstances could cause an instrument to be reclassified between levels within the fair value hierarchy.

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Validus Holdings, Ltd.

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(Expressed in thousands of U.S. dollars, except share and per share information)

At June 30, 2016, the Company's investments were allocated between Levels 1, 2 and 3 as follows:

	Level 1	Level 2	Level 3	Fair value based on NAV practical expedient	Total
Managed investments					
U.S. government and government agency	\$—	\$931,803	\$—	\$—	\$931,803
Non-U.S. government and government agency	—	215,250	—	—	215,250
U.S. states, municipalities and political subdivisions	—	285,412	—	—	285,412
Agency residential mortgage-backed securities	—	676,783	—	—	676,783
Non-agency residential mortgage-backed securities	—	23,389	—	—	23,389
U.S. corporate	—	1,556,047	—	—	1,556,047
Non-U.S. corporate	—	364,406	—	—	364,406
Bank loans	—	353,914	243,148	—	597,062
Asset-backed securities	—	416,957	12,383	—	429,340
Commercial mortgage-backed securities	—	314,033	—	—	314,033
Total fixed maturities	—	5,137,994	255,531	—	5,393,525
Short-term investments	186,276	3,352	—	—	189,628
Other investments					
Fund of hedge funds	—	—	—	959	959
Hedge funds	—	—	—	18,625	18,625
Private equity investments	—	—	—	73,306	73,306
Investment funds	—	22,335	—	181,536	203,871
Overseas deposits	—	—	—	55,301	55,301
Mutual funds	—	7,464	—	—	7,464
Total other investments	—	29,799	—	329,727	359,526
Total managed investments	\$186,276	\$5,171,145	\$255,531	\$329,727	\$5,942,679
Non-managed investments					
Catastrophe bonds	\$—	\$120,543	\$37,518	\$—	\$158,061
Short-term investments	2,180,026	—	—	—	2,180,026
Total non-managed investments	2,180,026	120,543	37,518	—	2,338,087
Total investments	\$2,366,302	\$5,291,688	\$293,049	\$329,727	\$8,280,766

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Validus Holdings, Ltd.

Notes to Consolidated Financial Statements (unaudited)

(Expressed in thousands of U.S. dollars, except share and per share information)

At December 31, 2015, the Company's investments were allocated between Levels 1, 2 and 3 as follows:

	Level 1	Level 2	Level 3	Fair value based on NAV	Total
				based on practical expedient	
Managed investments					
U.S. government and government agency	\$—	\$937,202	\$—	\$—	\$937,202
Non-U.S. government and government agency	—	237,968	—	—	237,968
U.S. states, municipalities and political subdivisions	—	301,289	—	—	301,289
Agency residential mortgage-backed securities	—	610,582	—	—	610,582
Non-agency residential mortgage-backed securities	—	26,920	—	—	26,920
U.S. corporate	—	1,489,951	—	—	1,489,951
Non-U.S. corporate	—	446,570	—	—	446,570
Bank loans	—	343,874	232,337	—	576,211
Asset-backed securities	—	437,124	—	—	437,124
Commercial mortgage-backed securities	—	260,135	—	—	260,135
Total fixed maturities	—	5,091,615	232,337	—	5,323,952
Short-term investments	222,678	14,691	—	—	237,369
Other investments					
Fund of hedge funds	—	—	—	1,417	1,417
Hedge funds	—	—	—	20,980	20,980
Private equity investments	—	—	—	63,771	63,771
Investment funds	—	20,811	—	167,910	188,721
Overseas deposits	—	—	—	54,484	54,484
Mutual funds	—	7,483	—	—	7,483
Total other investments	—	28,294	—	308,562	336,856
Total managed investments	\$222,678	\$5,134,600	\$232,337	\$308,562	\$5,898,177
Non-managed investments					
Catastrophe bonds	\$—	\$172,879	\$13,500	\$—	\$186,379
Short-term investments	1,704,266	—	—	—	1,704,266
Total non-managed investments	1,704,266	172,879	13,500	—	1,890,645
Total investments	\$1,926,944	\$5,307,479	\$245,837	\$308,562	\$7,788,822

At June 30, 2016, managed Level 3 investments totaled \$255,531 (December 31, 2015: \$232,337), representing 4.3% (December 31, 2015: 3.9%) of total managed investments.

(b) Valuation techniques

There have been no material changes in the Company's valuation techniques during the period, or periods, represented by these Consolidated Financial Statements. The following methods and assumptions were used in estimating the fair value of each class of financial instrument recorded in the Consolidated Balance Sheets.

Fixed maturity investments

In general, valuation of the Company's fixed maturity investment portfolio is provided by pricing services, such as index providers and pricing vendors, as well as broker quotations. The pricing vendors provide valuations for a high volume of liquid securities that are actively traded. For securities that do not trade on an exchange, the pricing services generally utilize market data and other observable inputs in matrix pricing models to determine month end prices.

Prices are generally verified using third party data. Securities which are priced by an index provider are generally included in the index.

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In general, broker-dealers value securities through their trading desks based on observable inputs. The methodologies include mapping securities based on trade data, bids or offers, observed spreads, and performance on newly issued securities. Broker-dealers also determine valuations by observing secondary trading of similar securities. Prices obtained from broker quotations are considered non-binding, however they are based on observable inputs and by observing secondary trading of similar securities obtained from active, non-distressed markets. The Company considers these Level 2 inputs as they are corroborated with other market observable inputs. The techniques generally used to determine the fair value of the Company's fixed maturity investments are detailed below by asset class.

U.S. government and government agency

U.S. government and government agency securities consist primarily of debt securities issued by the U.S. Treasury and mortgage pass-through agencies such as the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation and the Government National Mortgage Association. Fixed maturity investments included in U.S. government and government agency securities are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources and integrate other observations from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The fair value of each security is individually computed using analytical models which incorporate option adjusted spreads and other daily interest rate data. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Non-U.S. government and government agency

Non-U.S. government and government agency securities consist of debt securities issued by non-U.S. governments and their agencies along with supranational organizations (also known as sovereign debt securities). Securities held in these sectors are primarily priced by pricing services who employ proprietary discounted cash flow models to value the securities. Key quantitative inputs for these models are daily observed benchmark curves for treasury, swap and high issuance credits. The pricing services then apply a credit spread for each security which is developed by in-depth and real time market analysis. For securities in which trade volume is low, the pricing services utilize data from more frequently traded securities with similar attributes. These models may also be supplemented by daily market and credit research for international markets. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

U.S. states, municipalities and political subdivisions

The Company's U.S. states, municipalities and political subdivisions portfolio contains debt securities issued by U.S. domiciled state and municipal entities. These securities are generally priced by independent pricing services using the techniques described for U.S. government and government agency securities described above. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Agency residential mortgage-backed securities

The Company's agency residential mortgage-backed investments are primarily priced by pricing services using a mortgage pool specific model which utilizes daily inputs from the active to be announced ("TBA") market which is very liquid, as well as the U.S. treasury market. The model also utilizes additional information, such as the weighted average maturity, weighted average coupon and other available pool level data which is provided by the sponsoring agency. Valuations are also corroborated with daily active market quotes. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Non-agency residential mortgage-backed securities

The Company's non-agency mortgage-backed investments include non-agency prime residential mortgage-backed fixed maturity investments. The Company has no fixed maturity investments classified as sub-prime held in its fixed maturity investments portfolio. Securities held in these sectors are primarily priced by pricing services using an option adjusted spread model or other relevant models, which principally utilize inputs including benchmark yields, available

trade information or broker quotes, and issuer spreads. The pricing services also review collateral prepayment speeds, loss severity and delinquencies among other collateral performance indicators for the securities valuation, when applicable. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

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Validus Holdings, Ltd.

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(Expressed in thousands of U.S. dollars, except share and per share information)

U.S. corporate

Corporate debt securities consist primarily of investment-grade debt of a wide variety of U.S. corporate issuers and industries. The Company's corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. In certain instances, securities are individually evaluated using a spread which is added to the U.S. treasury curve or a security specific swap curve as appropriate. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Non-U.S. corporate

Non-U.S. corporate debt securities consist primarily of investment-grade debt of a wide variety of non-U.S. corporate issuers and industries. The Company's non-U.S. corporate fixed maturity investments are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Bank loans

The Company's bank loan investments consist primarily of below-investment-grade debt of a wide variety of corporate issuers and industries. The Company's bank loans are primarily priced by pricing services. When evaluating these securities, the pricing services gather information from market sources regarding the issuer of the security and obtain credit data, as well as other observations, from markets and sector news. Evaluations are updated by obtaining broker dealer quotes and other market information including actual trade volumes, when available. The pricing services also consider the specific terms and conditions of the securities, including any specific features which may influence risk. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Also, included in the bank loan portfolio is a collection of loan participations held through an intermediary. A third party pricing service provides monthly valuation reports for each loan and participation using a combination of quotations from loan pricing services, leveraged loan indices or market price quotes obtained directly from the intermediary. Significant unobservable inputs used to price these securities include credit spreads and default rates; therefore, the fair value of these investments are classified as Level 3.

Asset-backed securities

Asset backed securities include mostly investment-grade debt securities backed by pools of loans with a variety of underlying collateral, including automobile loan receivables, student loans, credit card receivables, and collateralized loan obligations originated by a variety of financial institutions. Securities held in these sectors are primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the cash flows noted above to determine the fair value of the securities held in this sector. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2. Where pricing is unavailable

from pricing services, we obtain non-binding quotes from broker-dealers. This is generally the case when there is a low volume of trading activity and current transactions are not orderly. Broker-dealer quotes for which significant observable inputs are unable to be corroborated with market observable information are classified as Level 3.

Commercial mortgage-backed securities

Commercial mortgage backed securities are investment-grade debt primarily priced by pricing services. The pricing services apply dealer quotes and other available trade information such as bids and offers, prepayment speeds which may be adjusted for the underlying collateral or current price data, the U.S. treasury curve and swap curve as well as cash settlement. The pricing services determine the expected cash flows for each security held in this sector using historical prepayment and default projections for the underlying collateral and current market data. In addition, a spread is applied to the relevant benchmark and used to discount the

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cash flows noted above to determine the fair value of the securities held in this sector. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2.

Catastrophe bonds

Catastrophe bonds are priced based on broker or underwriter bid indications. As the significant inputs used to price these securities are observable, the fair value of these investments are classified as Level 2. To the extent that these indications are based on significant unobservable inputs, the fair value of the relevant bonds will be classified as a Level 3.

Short-term investments

Short-term investments consist primarily of highly liquid securities, all with maturities of less than one year from the date of purchase. The fair value of the portfolio is generally determined using amortized cost which approximates fair value. As the highly liquid money market-type funds are actively traded, the fair value of these investments are classified as Level 1. To the extent that the remaining securities are not actively traded due to their approaching maturity, the fair value of these investments are classified as Level 2.

Other investments

Fund of hedge funds

The fund of hedge funds includes a side pocket. While a redemption request has been submitted, the timing of receipt of proceeds on the side pocket is unknown. The fund's administrator provides a monthly reported NAV with a three month delay in its valuation. The fund manager has provided an estimate of the fund NAV at each period end based on the estimated performance provided from the underlying funds. To determine the reasonableness of the estimated NAV, the Company compares the fund administrator's NAV to the fund manager's estimated NAV that incorporates relevant valuation sources on a timely basis. Material variances are recorded in the current reporting period while immaterial variances are recorded in the following reporting period. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Hedge funds

The hedge funds consist of one investment assumed in the acquisition of Flagstone Reinsurance Holdings, S.A. ("Flagstone") (the "Flagstone hedge fund"). The Flagstone hedge fund's administrator provides quarterly NAVs with a three month delay in valuation. The fair value of this investment is measured using the NAV practical expedient and therefore has not been categorized within the fair value hierarchy.

Private equity investments

The private equity funds provide quarterly or semi-annual partnership capital statements with a three or six month delay which are used as a basis for valuation. These private equity investments vary in investment strategies and are not actively traded in any open markets. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Investment funds

Investment funds consist of one pooled investment, two structured securities funds and a mezzanine debt fund. The pooled investment is invested in fixed income securities with high credit ratings and is only open to Lloyd's Trust Fund participants. The fair value of units in the investment fund is based on the NAV of the fund as reported by Lloyd's Treasury & Investment Management. As the fund NAV is published, the fair value of this investment is classified as Level 2.

The structured securities funds invest across asset backed, residential mortgage backed and commercial mortgage backed securities, whereas the mezzanine debt fund invests in a portfolio of mezzanine securities which generally take the form of private debt securities with equity participation in connection with buyouts, recapitalizations and refinancings. The fair value of units in each fund is based on the NAV of the respective fund as reported by the independent fund administrator. The NAV for each fund is reported on a one or three month delay by the fund's

administrator. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

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Overseas deposits

The Company's share of a portfolio of Lloyd's overseas deposits are managed centrally by Lloyd's and invested according to local regulatory requirements. The composition of the portfolio varies and the deposits are made across the market. The fair value of the deposits is based on the portfolio level reporting that is provided by Lloyd's. The fair value of these investments are measured using the NAV practical expedient and therefore have not been categorized within the fair value hierarchy.

Mutual funds

Mutual funds consist of two investment funds which are invested in various quoted investments. The fair value of units in the mutual funds are based on the NAV of the funds as reported by the fund manager. As the NAVs for each fund are published, the fair value of these investments are classified as Level 2.

(c) Level 3 investments

The following table presents a reconciliation of the beginning and ending balances for all investments measured at fair value on a recurring basis using Level 3 inputs during the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30, 2016			
	Bank Loans	Catastrophe Bonds	Asset Backed Securities	Total
Level 3 investments—beginning of period	\$255,011	\$ 37,105	\$ —	\$292,116
Purchases	8,885	—	12,383	21,268
Settlements	(17,784)	—	—	(17,784)
Change in net unrealized (losses) gains	(2,964)	413	—	(2,551)
Transfers into Level 3 during the period	—	—	—	—
Transfers out of Level 3 during the period	—	—	—	—
Level 3 investments—end of period	\$243,148	\$ 37,518	\$ 12,383	\$293,049
	Three Months Ended June 30, 2015			
	Bank Loans	Catastrophe Bonds	Total	
Level 3 investments—beginning of period	\$86,533	\$ 15,500	\$ 102,033	
Purchases	43,791	—	43,791	
Sales	(929)	(2,000)	(2,929)	
Settlements	(4,203)	—	(4,203)	
Change in net unrealized losses	(210)	—	(210)	
Transfers into Level 3 during the period	—	—	—	
Transfers out of Level 3 during the period	—	—	—	
Level 3 investments—end of period	\$124,982	\$ 13,500	\$ 138,482	

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	Six Months Ended June 30, 2016			
	Bank Loans	Catastrophe Bonds	Asset Backed Securities	Total
Level 3 investments—beginning of period	\$232,337	\$ 13,500	\$ —	\$245,837
Purchases	50,988	23,272	12,383	86,643
Sales	(2,389)	—	—	(2,389)
Settlements	(34,033)	(125)	—	(34,158)
Change in net unrealized (losses) gains	(3,755)	871	—	(2,884)
Transfers into Level 3 during the period	—	—	—	—
Transfers out of Level 3 during the period	—	—	—	—
Level 3 investments—end of period	\$243,148	\$ 37,518	\$ 12,383	\$293,049
	Six Months Ended June 30, 2015			
	Bank Loans	Catastrophe Bonds	Total	
Level 3 investments—beginning of period	\$32,748	\$ 17,500	\$50,248	
Purchases	101,966	—	101,966	
Sales	(929)	(3,989)	(4,918)	
Settlements	(8,198)	—	(8,198)	
Net realized losses	—	(11)	(11)	
Change in net unrealized losses	(605)	—	(605)	
Transfers into Level 3 during the period	—	—	—	
Transfers out of Level 3 during the period	—	—	—	
Level 3 investments—end of period	\$124,982	\$ 13,500	\$138,482	

There have not been any transfers into or out of Level 3 during the three and six months ended June 30, 2016 or 2015, respectively.

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5. Variable interest entities

The Company consolidates all VOEs in which it has a controlling financial interest and all VIEs in which it is considered to be the primary beneficiary. The Company's VIEs primarily include entities related to the AlphaCat segment.

(a) Consolidated VIEs

AlphaCat sidecars

Beginning on May 25, 2011, the Company joined with other investors in capitalizing a series of sidecars for the purpose of investing in collateralized reinsurance and retrocessional contracts. Certain of these sidecars deployed their capital through transactions entered into by AlphaCat Reinsurance Ltd. ("AlphaCat Re"). Each of these entities return capital once the risk period expires and all losses have been paid out. The AlphaCat sidecars are VIEs and are consolidated by the Company as the primary beneficiary. The Company's maximum exposure to any of the sidecars is the amount of capital invested at any given time and any remaining capital commitments.

AlphaCat ILS funds

The AlphaCat ILS funds received third party subscriptions beginning on December 17, 2012. The Company and other investors invest in the AlphaCat ILS funds for the purpose of investing in instruments with returns linked to property catastrophe reinsurance, retrocession and insurance linked securities ("ILS") contracts. The AlphaCat ILS funds have varying risk profiles and are categorized by the expected loss of the fund. Expected loss represents the average annual loss over the set of simulation scenarios divided by the total limit. Lower risk ILS funds are defined as having a maximum permitted portfolio expected loss of less than 7%, whereas higher risk ILS funds have a maximum permitted portfolio expected loss of greater than 7%. The AlphaCat ILS funds primarily deploy their capital through transactions entered into by AlphaCat Re and AlphaCat Master Fund Ltd. ("AlphaCat Master Fund"). The AlphaCat ILS funds are VIEs and are consolidated by the Company as the primary beneficiary. The Company's maximum exposure to any of the funds is the amount of capital invested at any given time and any remaining capital commitments. Refer to Note 15, "Commitments and contingencies," for further details.

AlphaCat Re and AlphaCat Master Fund

The Company utilizes AlphaCat Re and AlphaCat Master Fund (collectively the "master funds"), both market facing entities, for the purpose of writing collateralized reinsurance and investing in capital markets products, respectively, on behalf of certain entities within the AlphaCat segment and direct third party investors. AlphaCat Re enters into transactions on behalf of the AlphaCat sidecars and ILS funds (collectively the "feeder funds") and direct third party investors, whereas AlphaCat Master Fund only enters into transactions on behalf of certain AlphaCat ILS funds. All of the risks and rewards of the underlying transactions are allocated to the feeder funds and direct third party investors using variable funding notes. The master funds are VIEs and are consolidated by the Company as the primary beneficiary.

Notes Payable to AlphaCat Investors

The master funds issue variable funding notes to the feeder funds, and direct to third party investors, in order to write collateralized reinsurance and invest in capital markets products on their behalf. The Company's investments in the feeder funds, together with investments made by third parties in the feeder funds and on a direct basis, are provided as consideration for the notes to the master funds. The duration of the underlying collateralized reinsurance contracts and capital market products is typically twelve months; however, the variable funding notes do not have a stated maturity date or principal amount since repayment is dependent on the settlement and income or loss of the underlying transactions. Therefore, the notes are subsequently redeemed as the underlying transactions are settled. The income or loss generated by the underlying transactions is then transferred to the feeder funds and direct third party investors via the variable funding notes.

As both the master and feeder funds are consolidated by the Company, any notes issued by the master funds to the feeder funds are eliminated on consolidation and only variable funding notes issued by AlphaCat Re to direct third party investors remain on the Consolidated Balance Sheets as notes payable to AlphaCat investors with the related income or loss included in the Consolidated Statements of Comprehensive Income as (income) loss attributable to AlphaCat investors. To the extent that the (income) loss has not been returned to the investors, it is included in accounts payable and accrued expenses in the Consolidated Balance Sheets.

During the six months ended June 30, 2016, one of the AlphaCat ILS funds issued both common shares and structured notes to the Company and other third party investors in order to capitalize the fund. The fund deploys its capital through AlphaCat Re; therefore, the structured notes do not have a stated maturity date or principal amount since repayment is dependent on the settlement and income or loss of the variable funding notes with AlphaCat Re. The structured notes rank senior to the common shares and earn an interest rate of 8.0% per annum, payable on a cumulative basis in arrears.

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As the fund is consolidated by the Company, the structured notes issued to the Company are eliminated on consolidation and only the structured notes issued to third party investors remain on the Consolidated Balance Sheets as notes payable to AlphaCat investors with any related interest included in the Consolidated Statements of Comprehensive Income as (income) loss attributable to AlphaCat investors. To the extent that the accrued interest on the structured notes has not been returned to the investors, it is included in accounts payable and accrued expenses in the Consolidated Balance Sheets.

The following table presents a reconciliation of the beginning and ending notes payable to AlphaCat investors for the three and six months ended June 30, 2016:

	Three Months Ended June 30, 2016		
	Variable Funding Notes	Structured Notes	Total
Notes payable to AlphaCat investors, beginning of period	\$261,793	\$ 61,717	\$323,510
Issuance of notes payable to AlphaCat investors	102,817	32,609	135,426
Redemption of notes payable to AlphaCat investors	(88,079)	—	(88,079)
Foreign exchange losses	125	—	125
Notes payable to AlphaCat investors, end of period	\$276,656	\$ 94,326	\$370,982
	Six Months Ended June 30, 2016		
	Variable Funding Notes	Structured Notes	Total
Notes payable to AlphaCat investors, beginning of period	\$75,493	\$ —	\$75,493
Issuance of notes payable to AlphaCat investors	298,105	94,326	392,431
Redemption of notes payable to AlphaCat investors	(97,684)	—	(97,684)
Foreign exchange losses	742	—	742
Notes payable to AlphaCat investors, end of period	\$276,656	\$ 94,326	\$370,982

The income attributable to AlphaCat investors was \$6,114 and \$10,714 for the three and six months ended June 30, 2016, respectively, with \$13,126 included in accounts payable and accrued expenses as at June 30, 2016 (December 31, 2015: \$2,412).

BetaCat ILS funds

The BetaCat ILS funds invest exclusively in catastrophe bonds (principal-at-risk variable rate notes and other event-linked securities, being referred to collectively as “Cat Bonds”) focused on property and casualty risk issued under Rule 144A of the Securities Act of 1933, as amended, following a passive buy-and-hold investment strategy. One of the funds is a VIE and is consolidated by the Company as it is the primary beneficiary. The remaining funds are VOEs and are consolidated by the Company as it owns all of the voting equity interests. The Company's maximum exposure to any of the funds is the amount of capital invested at any given time.

The following table presents the total assets and total liabilities of the Company's consolidated VIEs, excluding intercompany eliminations, as at June 30, 2016 and December 31, 2015:

	June 30, 2016		December 31, 2015	
	Total	Total	Total	Total
	Assets	Liabilities	Assets	Liabilities
AlphaCat sidecars	\$47,693	\$ 10,468	\$206,581	\$ 14,804
AlphaCat ILS funds - Lower Risk (a)	1,544,346	29,842	1,268,070	143,371

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AlphaCat ILS funds - Higher Risk (a)	701,348	147,466	522,867	300,122
AlphaCat Re and AlphaCat Master Fund	2,431,907	2,431,737	1,615,779	1,615,609
BetaCat ILS funds	63,947	493	64,221	2,472

Lower risk AlphaCat ILS funds have a maximum permitted portfolio expected loss of less than 7%, whereas higher (a) risk AlphaCat ILS funds have a maximum permitted portfolio expected loss of greater than 7%. Expected loss represents the average annual loss over the set of simulation scenarios divided by the total limit.

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Assets of consolidated VIEs can only be used to settle obligations and liabilities of the consolidated VIEs and do not have recourse to the general credit of the Company. Investments held by these entities are presented separately in Note 3, "Investments," as non-managed investments.

(b) Non-Consolidated VIEs

The Company invests in private equity and other investment vehicles as part of the Company's investment portfolio. The activities of these VIEs are generally limited to holding investments and the Company's involvement in these entities is passive in nature. The Company's maximum exposure to the VIEs is the amount of capital invested at any given time, and the Company does not have the power to direct the activities which most significantly impact the VIEs economic performance. The Company is therefore not the primary beneficiary of these VIEs.

6. Investments in affiliates

The following table presents the Company's investments in affiliates as at June 30, 2016 and December 31, 2015:

	June 30, December	
	2016	31, 2015
Investment affiliate	\$99,278	\$ 87,673
Operating affiliate	—	392
Investments in affiliates	\$99,278	\$ 88,065

(a) Investment affiliate**Aquiline Financial Services Fund II L.P.**

On December 20, 2011, the Company entered into an Assignment and Assumption Agreement (the "Agreement") with Aquiline Capital Partners LLC, a Delaware limited liability company ("Aquiline Capital") and Aquiline Capital Partners II GP (Offshore) Ltd., a Cayman Islands company limited by shares (the "Aquiline II General Partner") pursuant to which the Company has assumed 100% of Aquiline Capital's interest in Aquiline Financial Services Fund II L.P. (the "Aquiline II Partnership") representing a total capital commitment of \$50,000 (the "Aquiline II Commitment"), as a limited partner in the Partnership (the "Transferred Interest"). The Transferred Interest is governed by the terms of an Amended and Restated Exempted Limited Partnership Agreement of the Fund dated January 9, 2013 (the "Aquiline II Limited Partnership Agreement").

On October 2, 2014, the Company assumed an additional investment in the Aquiline II Partnership as part of the Western World acquisition representing a total capital commitment of \$10,000. This interest is also governed by the terms of the Aquiline II Limited Partnership Agreement.

The Aquiline II Partnership is a VIE and the Company is not the primary beneficiary. Therefore, the Company's investment in the Aquiline II Partnership has been treated as an equity method investment. The Aquiline II Partnership provides a quarterly capital account statement, with a three month delay in its valuation, which was used as the basis for calculating the Company's share of the Aquiline II Partnership income for the period.

In accordance with the terms of the Agreement, no limited partner has the right to withdraw from the Aquiline II Partnership or to withdraw any part of its capital account without prior consent from the Aquiline II General Partner. The Company's maximum exposure to the Aquiline II Partnership is limited to the amount invested and any remaining capital commitment. Refer to Note 15, "Commitments and contingencies," for further details.

Aquiline Financial Services Fund III L.P.

On November 7, 2014, the Company, entered into a Subscription Agreement (the "Subscription Agreement") with Aquiline Capital Partners III GP (Offshore) Ltd., a Cayman Islands company limited by shares (the "Aquiline III General Partner") pursuant to which the Company committed and agreed to purchase limited partnership or other comparable limited liability equity interests (the "Limited Partnership Interests") in Aquiline Financial Services Fund III L.P., a Cayman Islands exempted limited partnership (the "Aquiline III Partnership"), and/or one or more Alternative Investment Vehicles and Intermediate Entities (together with the Aquiline III Partnership, the "Aquiline

Fund" or the "Entities") with a capital commitment (the "Aquiline III Commitment") in an amount equal to \$100,000, as a limited partner in the Aquiline III Partnership. The Limited Partnership Interests are governed by the terms of an Amended and Restated Exempted Limited Partnership Agreement dated as of November 7, 2014 (the "Aquiline III Limited Partnership Agreement").

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The Aquiline III Partnership is a VIE and the Company is not the primary beneficiary. Therefore, the Company's investment in the Aquiline III Partnership has been treated as an equity method investment. The Aquiline III Partnership provides a quarterly capital account statement, with a three month delay in its valuation, which was used as the basis for calculating the Company's share of Aquiline III Partnership income for the period.

In accordance with the terms of the Agreement, no limited partner has the right to withdraw from the Aquiline III Partnership or to withdraw any part of its capital account without prior consent from the Aquiline III General Partner.

The Company's maximum exposure to the Aquiline III Partnership is limited to the amount invested and any remaining capital commitment. Refer to Note 15, "Commitments and contingencies," for further details.

The following table presents a reconciliation of the beginning and ending investment in the Company's investment affiliate balance for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Investment affiliate, beginning of period	\$84,135	\$85,982	\$87,673	\$63,506
Capital contributions	15,732	3,415	16,307	23,115
(Loss) income from investment affiliate	(589)	284	(4,702)	3,060
Investment affiliate, end of period	\$99,278	\$89,681	\$99,278	\$89,681

The following table presents the Company's investment in the partnerships as at June 30, 2016:

	Investment at cost	Voting ownership %	Equity ownership %	Carrying value
Aquiline Financial Services Fund II L.P.	\$ 56,479	—%	8.0 %	\$71,178
Aquiline Financial Services Fund III L.P.	\$ 29,622	—%	10.5 %	\$28,100
Total	\$ 86,101			\$99,278

The following table presents the Company's investment in the partnerships as at December 31, 2015:

	Investment at cost	Voting ownership %	Equity ownership %	Carrying value
Aquiline Financial Services Fund II L.P.	\$ 55,904	—%	8.1 %	\$73,880
Aquiline Financial Services Fund III L.P.	13,890	—%	13.7 %	13,793
Total	\$ 69,794			\$87,673

(b) Operating affiliate

PaCRe, Ltd.

On April 2, 2012, the Company joined with other investors in capitalizing PaCRe, a Class 4 Bermuda reinsurer formed for the purpose of writing high excess property catastrophe reinsurance. However, during the fourth quarter of 2015, PaCRe's Class 4 license was surrendered and the company was considered off-risk effective January 1, 2016.

The Company's investment in PaCRe has been treated as an equity method investment. The Company's maximum exposure to the fund is the amount of capital invested at any given time.

The following table presents a reconciliation of the beginning and ending investment in the Company's operating affiliate balance for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Operating affiliate, beginning of period	\$369	\$54,928	\$392	\$50,944

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Return of investment	(369)	—	(369)	—
(Loss) income from operating affiliate	—	1,738	(23)	5,722
Operating affiliate, end of period	\$—	\$56,666	\$—	\$56,666

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The following table presents the Company's investment in PaCRe as at June 30, 2016:

Investment at cost	Voting ownership %	Equity ownership %	Carrying value
Investment in PaCRe \$	—100.0 %	10.0 %	\$ —

The following table presents the Company's investment in PaCRe as at December 31, 2015:

Investment at cost	Voting ownership %	Equity ownership %	Carrying value
Investment in PaCRe \$	392 100.0 %	10.0 %	\$ 392

7. Noncontrolling interest

Investors in certain of the AlphaCat ILS funds have rights that enable shareholders, subject to certain limitations, to redeem their shares. The third party equity is therefore recorded in the Company's Consolidated Balance Sheets as redeemable noncontrolling interest. When and if a redemption notice is received, the fair value of the redemption is reclassified to a liability.

The AlphaCat sidecars and one of the AlphaCat ILS funds have no shareholder redemption rights. Therefore, the third party equity is recorded in the Company's Consolidated Balance Sheets as noncontrolling interest.

The following tables present a reconciliation of the beginning and ending balances of redeemable noncontrolling interest and noncontrolling interest for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30, 2016		
	Redeemable noncontrolling interest	Noncontrolling interest	Total
Balance, beginning of period	\$ 1,409,037	\$ 157,223	\$ 1,566,260
Issuance of shares	112,500	59,349	171,849
Income attributable to noncontrolling interest	17,230	3,963	21,193
Redemptions payable	(6,484)	—	(6,484)
Distributions	—	(8,381)	(8,381)
Balance, end of period	\$ 1,532,283	\$ 212,154	\$ 1,744,437
	Three Months Ended June 30, 2015		
	Redeemable noncontrolling interest	Noncontrolling interest	Total
Balance, beginning of period	\$ 834,644	\$ 151,583	\$ 986,227
Issuance of shares	249,300	9,600	258,900
Income attributable to noncontrolling interest	17,462	5,099	22,561
Redemption of shares	(59,395)	—	(59,395)
Redemptions payable	(6,500)	—	(6,500)
Distributions	—	(12,759)	(12,759)
Balance, end of period	\$ 1,035,511	\$ 153,523	\$ 1,189,034

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	Six Months Ended June 30, 2016		
	Redeemable noncontrolling interest	Noncontrolling interest	Total
Balance, beginning of period	\$ 1,111,714	\$ 154,662	\$ 1,266,376
Issuance of shares	381,250	171,674	552,924
Income attributable to noncontrolling interest	45,803	12,921	58,724
Redemptions payable	(6,484)	—	(6,484)
Distributions	—	(127,103)	(127,103)
Balance, end of period	\$ 1,532,283	\$ 212,154	\$ 1,744,437
	Six Months Ended June 30, 2015		
	Redeemable noncontrolling interest	Noncontrolling interest	Total
Balance, beginning of period	\$ 617,791	\$ 292,274	\$ 910,065
Issuance of shares	452,700	9,600	462,300
Income attributable to noncontrolling interest	30,915	9,824	40,739
Redemption of shares	(59,395)	—	(59,395)
Redemptions payable	(6,500)	—	(6,500)
Distributions	—	(158,175)	(158,175)
Balance, end of period	\$ 1,035,511	\$ 153,523	\$ 1,189,034

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8. Derivative instruments

The Company enters into derivative instruments for risk management purposes, specifically to hedge unmatched foreign currency exposures and interest rate exposures. As at June 30, 2016 and December 31, 2015, the Company held foreign currency forward contracts to mitigate the risk of fluctuations in the U.S. dollar against a number of foreign currencies. In addition, the Company held two interest rate swaps to fix the payment of interest on the Company's 2006 and 2007 Junior Subordinated Deferrable Debentures, as well as three interest rate swaps and one cross-currency interest rate swap to fix the payment of interest and mitigate the foreign exchange rate impact on Flagstone's 2006 and 2007 Junior Subordinated Deferrable Debentures.

As at June 30, 2016 and December 31, 2015, none of the Company's foreign currency forward contracts were designated as hedging instruments for accounting purposes.

The following table summarizes information on the classification and amount of the fair value of derivatives not designated as hedging instruments for accounting purposes on the Consolidated Balance Sheets as at June 30, 2016 and December 31, 2015:

	June 30, 2016			December 31, 2015		
	Notional Exposure	Asset	Liability	Notional Exposure	Asset	Liability
		Derivative at Fair Value (a)	Derivative at Fair Value (a)		Derivative at Fair Value (a)	Derivative at Fair Value (a)
Derivatives not designated as hedging instruments:						
Foreign currency forward contracts	\$297,275	\$ 4,230	\$ 4,746	\$255,840	\$ 2,601	\$ 3,211

Asset and liability derivatives are classified within other assets and accounts payable and accrued expenses, respectively, on the Consolidated Balance Sheets. The net impact on earnings, recognized in income within foreign exchange gains (losses) relating to the foreign currency forward contracts that were not designated as hedging (a) instruments during the three and six months ended June 30, 2016 was \$896 and (\$1,117), respectively (2015: \$nil and \$nil, respectively). The net impact on earnings, recognized in income within other income (loss) relating to the foreign currency forward contracts that were not designated as hedging instruments during the three and six months ended June 30, 2016 were \$84 and \$120, respectively (2015: (\$128) and (\$127), respectively).

The following table summarizes information on the classification and amount of the fair value of derivatives designated as hedging instruments for accounting purposes on the Consolidated Balance Sheets as at June 30, 2016 and December 31, 2015:

	June 30, 2016			December 31, 2015		
	Notional Exposure	Asset	Liability	Notional Exposure	Asset	Liability
		Derivative at Fair Value (a)	Derivative at Fair Value (a)		Derivative at Fair Value (a)	Derivative at Fair Value (a)
Derivatives designated as hedging instruments:						
Interest rate swap contracts	\$552,263	\$ 20	\$ 2,529	\$552,263	\$ 21	\$ 1,942

(a) Asset and liability derivatives are classified within other assets and accounts payable and accrued expenses, respectively, on the Consolidated Balance Sheets.

(a) Classification within the fair value hierarchy

As described in Note 4, "Fair value measurements," under U.S. GAAP, a company must determine the appropriate level in the fair value hierarchy for each fair value measurement. The assumptions used within the valuation of the Company's derivative instruments are observable in the marketplace, can be derived from observable data or are supported by observable levels at which other similar transactions are executed in the marketplace. Accordingly, these derivatives were classified within Level 2 of the fair value hierarchy.

(b) Derivative instruments designated as a fair value hedge

The Company designates certain foreign currency derivative instruments as fair value hedges for accounting purposes and formally and contemporaneously documents all relationships between the derivative instruments and hedged items and links the derivative instruments to specific assets and liabilities. The Company assesses the effectiveness of these hedges, both at inception and on an on-going basis and determines whether the hedges are highly effective in offsetting changes in fair value of the linked hedged items.

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The following table provides the total impact on earnings, recognized in income within foreign exchange gains (losses), relating to the derivative instruments formally designated as fair value hedges for accounting purposes along with the impact of the related hedged items for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30, 2016	Six Months Ended June 30, 2015
Foreign currency forward contracts		
Amount of loss recognized in income on derivative	\$-(8,954)	\$-(15,156)
Amount of gain on hedged item recognized in income attributable to risk being hedged	\$8,954	\$15,156
Amount of gain recognized in income on derivative (ineffective portion)	\$—	\$—

(c) Derivative instruments designated as a cash flow hedge

The Company designates its interest rate derivative instruments as cash flow hedges for accounting purposes and formally and contemporaneously documents all relationships between the hedging instruments and hedged items and links the derivative instruments to specific assets and liabilities. The Company assesses the effectiveness of the hedges, both at inception and on an on-going basis and determines whether the hedges are highly effective in offsetting changes in fair value of the linked hedged items. The Company currently applies the long haul method when assessing the hedge's effectiveness.

The following table provides the total impact on other comprehensive income (loss) and earnings relating to the derivative instruments formally designated as cash flow hedges along with the impact of the related hedged items for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Interest rate swap contracts				
Amount of effective portion recognized in other comprehensive income	\$2,694	\$2,846	\$6,350	\$6,886
Amount of effective portion subsequently reclassified to earnings	\$(2,758)	\$(3,236)	\$(5,656)	\$(6,475)
Amount of ineffective portion excluded from effectiveness testing	\$64	\$390	\$(694)	\$(411)

The above balances relate to interest payments and have therefore been classified as finance expenses in the Consolidated Statements of Comprehensive Income.

(d) Balance sheet offsetting

There was no balance sheet offsetting activity as at June 30, 2016 or December 31, 2015.

The Company currently provides cash collateral as security for interest rate swap contracts. The Company does not provide cash collateral or financial instruments as security for foreign currency forward contracts. Our derivative instruments are generally traded under International Swaps and Derivatives Association master netting agreements, which establish terms that apply to all transactions. On a periodic basis, the amounts receivable from or payable to the counterparties are settled in cash.

The Company has not elected to settle multiple transactions with an individual counterparty on a net basis.

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9. Reserve for losses and loss expenses

Reserves for losses and loss expenses are based in part upon the estimation of case reserves from broker, insured and ceding company reported data. The Company also uses statistical and actuarial methods to estimate ultimate expected losses and loss expenses, from which incurred but not reported losses can be calculated. The period of time from the occurrence of a loss to the reporting of a loss to the Company and to the settlement of the Company's liability may be several months or years. During this period, additional facts and trends may be revealed. As these factors become apparent, reserves will be adjusted, sometimes requiring an increase or decrease in the overall reserves of the Company, and at other times requiring a reallocation of incurred but not reported reserves ("IBNR") to specific case reserves. These estimates are reviewed and adjusted regularly, and such adjustments, if any, are reflected in earnings in the period in which they become known. While management believes that it has made a reasonable estimate of ultimate losses, there can be no assurances that ultimate losses and loss expenses will not exceed this estimate.

The following table represents an analysis of paid and unpaid losses and loss expenses incurred and a reconciliation of the beginning and ending unpaid losses and loss expenses for the three and six months ended June 30, 2016 and 2015:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Reserve for losses and loss expenses, beginning of period	\$2,980,300	\$3,207,885	\$2,996,567	\$3,243,147
Loss reserves recoverable	(370,689)	(375,882)	(350,586)	(377,466)
Net reserves for losses and loss expenses, beginning of period	2,609,611	2,832,003	2,645,981	2,865,681
Increase (decrease) in net reserves for losses and loss expenses in respect of losses occurring in:				
Current year	369,911	336,864	648,097	661,352
Prior years (a)	(62,781)	(70,718)	(116,520)	(154,277)
Total incurred losses and loss expenses (a)	307,130	266,146	531,577	507,075
Less net losses and loss expenses paid in respect of losses occurring in:				
Current year	(45,882)	(28,965)	(61,655)	(42,065)
Prior years	(176,775)	(260,027)	(430,079)	(496,260)
Total net paid losses	(222,657)	(288,992)	(491,734)	(538,325)
Foreign exchange (gain) loss	(14,354)	6,841	(6,094)	(18,433)
Net reserve for losses and loss expenses, end of period	2,679,730	2,815,998	2,679,730	2,815,998
Loss reserves recoverable	442,987	376,665	442,987	376,665
Reserve for losses and loss expenses, end of period	\$3,122,717	\$3,192,663	\$3,122,717	\$3,192,663
Incurred losses and loss expenses comprise:				
	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2016	2015	2016	2015
Gross losses and loss expenses (a)	\$397,863	\$303,771	\$667,716	\$568,567
Reinsurance recoverable	(90,733)	(37,625)	(136,139)	(61,492)
Net incurred losses and loss expenses (a)	\$307,130	\$266,146	\$531,577	\$507,075

(a) Upon closing the acquisition of Western World, an adjustment of \$15,586 was made to increase net reserves to reflect fair value. This adjustment was amortized to income through a reduction in losses and loss expenses of \$2,892 and \$6,115, respectively, during the three and six months ended June 30, 2015, benefiting the loss ratio by 4.4 and 4.6 percentage points, respectively. The remaining fair value adjustment of \$4,864 was fully amortized

during 2015.

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The June 30, 2016 gross reserves for losses and loss expenses comprise reserves for reported claims of \$1,267,625 (December 31, 2015: \$1,278,697) and IBNR of \$1,855,092 (December 31, 2015: \$1,717,870). The net favorable development on prior years by segment and line of business for the three and six months ended June 30, 2016 and 2015 was as follows:

Three Months Ended June 30, 2016

	Property	Marine	Specialty	Liability	Total
Validus Re	\$(9,468)	\$(10,018)	\$(11,391)	\$	—\$(30,877)
Talbot					