

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, 2023**
OR

☐ **TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF
THE SECURITIES EXCHANGE ACT OF 1934
For the transition period from to
Commission File Number: 001-14428
RENAISSANCERE HOLDINGS LTD.**

(Exact Name Of Registrant As Specified In Its Charter)

Bermuda
(State or Other Jurisdiction of
Incorporation or Organization)

98-0141974
(I.R.S. Employer
Identification Number)

Renaissance House, 12 Crow Lane, Pembroke, Bermuda **HM 19**

(Address of Principal Executive Offices) (Zip Code)

(441) 295-4513

(Registrant's telephone number, including area code)

Not Applicable

(Former name, former address and former fiscal year, if changed since last report)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading symbol	Name of each exchange on which registered
Common Shares, Par Value \$1.00 per share	RNR	New York Stock Exchange
Depository Shares, each representing a 1/1,000th interest in a Series F 5.750% Preference Share, Par Value \$1.00 per share	RNR PRF	New York Stock Exchange
Depository Shares, each representing a 1/1,000th interest in a Series G 4.20% Preference Share, Par Value \$1.00 per share	RNR PRG	New York Stock Exchange

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 every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files). Yes ☒ No ☐

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

Large accelerated filer ☒, Accelerated filer ☐, Non-accelerated filer ☐, Smaller reporting company ☐, Emerging growth company ☐

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

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

The number of Common Shares, par value U.S. \$1.00 per share, outstanding at July 24, 2023 was 51,181,534.

RENAISSANCERE HOLDINGS LTD.
TABLE OF CONTENTS

	<u>Page</u>
<u>GLOSSARY OF DEFINED TERMS</u>	<u>3</u>
<u>NOTE ON FORWARD-LOOKING STATEMENTS</u>	<u>5</u>
<u>PART I</u>	
ITEM 1. <u>FINANCIAL STATEMENTS</u>	<u>7</u>
ITEM 2. <u>MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS</u>	<u>59</u>
ITEM 3. <u>QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK</u>	<u>106</u>
ITEM 4. <u>CONTROLS AND PROCEDURES</u>	<u>106</u>
<u>PART II</u>	
ITEM 1. <u>LEGAL PROCEEDINGS</u>	<u>107</u>
ITEM 1A. <u>RISK FACTORS</u>	<u>107</u>
ITEM 2. <u>UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS</u>	<u>110</u>
ITEM 3. <u>DEFAULTS UPON SENIOR SECURITIES</u>	<u>110</u>
ITEM 4. <u>MINE SAFETY DISCLOSURES</u>	<u>110</u>
ITEM 5. <u>OTHER INFORMATION</u>	<u>110</u>
ITEM 6. <u>EXHIBITS</u>	<u>111</u>
<u>SIGNATURES</u>	<u>112</u>

GLOSSARY OF DEFINED TERMS

In this Form 10-Q, references to “RenaissanceRe” refer to RenaissanceRe Holdings Ltd. (the parent company) and references to “we,” “us,” “our” and the “Company” refer to RenaissanceRe Holdings Ltd. together with its subsidiaries, unless the context requires otherwise.

“AIG”	American International Group, Inc., a Delaware corporation and NYSE-listed company (together with its affiliates and subsidiaries)
“ASC”	Accounting Standards Codification
“A.M. Best”	A.M. Best Company, Inc.
“DaVinci Reinsurance”	DaVinci Reinsurance Ltd.
“DaVinci”	DaVinciRe Holdings Ltd. and its subsidiaries
“ERM”	enterprise risk management
“Exchange Act”	the Securities Exchange Act of 1934, as amended
“FAL”	a deposit that must be submitted to support the underwriting capacity of a member of Lloyd's
“FASB”	Financial Accounting Standards Board
“FCR”	financial condition report
“Fitch”	Fitch Ratings Ltd.
“Fontana”	Fontana Holdings L.P. and its subsidiaries
“Form 10-K”	Annual Report on Form 10-K
“Form 10-Q”	this Quarterly Report on Form 10-Q for the quarterly period ended June 30, 2023
“IRS”	United States Internal Revenue Service
“Medici”	RenaissanceRe Medici Fund Ltd.
“Moody's”	Moody's Investors Service
“Renaissance Reinsurance”	Renaissance Reinsurance Ltd.
“Renaissance Reinsurance of Europe”	Renaissance Reinsurance of Europe Unlimited Company
“Renaissance Reinsurance U.S.”	Renaissance Reinsurance U.S. Inc.
“RenaissanceRe”	RenaissanceRe Holdings Ltd.
“RenaissanceRe Finance”	RenaissanceRe Finance Inc.
“RenaissanceRe Specialty U.S.”	RenaissanceRe Specialty U.S. Ltd.
“RREAG”	RenaissanceRe Europe AG
“S&P”	Standard and Poor's Rating Services
“SEC”	U.S. Securities and Exchange Commission
“Securities Act”	Securities Act of 1933, as amended
“Stock Purchase Agreement”	Stock Purchase Agreement, dated May 22, 2023, among RenaissanceRe Holdings Ltd. and AIG
“Syndicate 1458”	RenaissanceRe Syndicate 1458
“Talbot”	Talbot Underwriting Ltd., an affiliate of AIG
“Top Layer”	Top Layer Reinsurance Ltd.
“Tower Hill Companies”	collectively, our investments in a group of Tower Hill affiliated companies including Bluegrass Insurance Management, LLC, Tower Hill Claims Service, LLC, Tower Hill Holdings, Inc., Tower Hill Insurance Group, LLC, Tower Hill Insurance Managers, LLC, Tower Hill Re Holdings, Inc., Tower Hill Signature Insurance Holdings, Inc., Tower Hill Risk Management LLC and Tomoka Re Holdings, Inc.
“U.K.”	United Kingdom
“U.S.”	United States of America
“Upsilon Diversified”	RenaissanceRe Upsilon Diversified Fund, a segregated account of Upsilon Fund

"Upsilon Fund"	RenaissanceRe Upsilon Fund Ltd.
"Upsilon RFO"	Upsilon RFO Re Ltd.
"Validus"	Validus Holdings, Validus Specialty, and their respective subsidiaries (including Validus Re), collectively
"Validus Acquisition"	The acquisitions under the Stock Purchase Agreement, together with the other transactions contemplated in the Stock Purchase Agreement.
"Validus Business"	the collective business of Validus
"Validus Holdings"	Validus Holdings, Ltd.
"Validus Re"	Validus Reinsurance, Ltd.
"Validus Specialty"	Validus Specialty, LLC
"Vermeer"	Vermeer Reinsurance Ltd.

NOTE ON FORWARD-LOOKING STATEMENTS

This Quarterly Report on Form 10-Q of RenaissanceRe Holdings Ltd. contains forward-looking statements within the meaning of Section 27A of the Securities Act, and Section 21E of the Exchange Act. Forward-looking statements are necessarily based on estimates and assumptions that are inherently subject to significant business, economic and competitive uncertainties and contingencies, many of which, with respect to future business decisions, are subject to change. These uncertainties and contingencies can affect actual results and could cause actual results to differ materially from those expressed in any forward-looking statements made by, or on behalf of, us. In particular, statements using words such as “may,” “should,” “estimate,” “expect,” “anticipate,” “intend,” “believe,” “predict,” “potential,” or words of similar import generally involve forward-looking statements. For example, we may include certain forward-looking statements in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” with regard to trends in results, prices, volumes, operations, investment results, margins, combined ratios, fees, reserves, market conditions, risk management and exchange rates. This Form 10-Q also contains forward-looking statements with respect to our business and industry, such as those relating to our strategy and management objectives, plans and expectations regarding our response and ability to adapt to changing economic conditions, market standing and product volumes, competition and new entrants in our industry, industry capital, insured losses from loss events, government initiatives and regulatory matters affecting the reinsurance and insurance industries. In addition, this Form 10-Q may include forward-looking statements with respect to the Validus Acquisition and its impact on our business and our relationship with AIG. In light of the risks and uncertainties inherent in all future projections, the inclusion of forward-looking statements in this Form 10-Q should not be considered as a representation by us or any other person that our current objectives or plans will be achieved. Numerous factors could cause our actual results to differ materially from those addressed by the forward-looking statements, including those set forth under “Risk Factors” in this Form 10-Q. We undertake no obligation to release publicly the results of any future revision we may make to forward-looking statements to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

The inclusion of forward-looking statements in this report should not be considered as a representation by us or any other person that our current objectives or plans will be achieved. Numerous factors could cause our actual results to differ materially from those addressed by the forward-looking statements, including the following:

- the risk that the Validus Acquisition may not be completed within the expected timeframe, or at all;
- the risk that regulatory agencies in certain jurisdictions may impose onerous conditions following the Validus Acquisition;
- difficulties in integrating the Validus Business;
- the risk that the due diligence process that we undertook in connection with the Validus Acquisition may not have revealed all facts that may be relevant in connection with the Validus Acquisition;
- our ability to manage the growth of the Validus Business’ operations successfully following the Validus Acquisition;
- that the historical financial statements of the Validus Business are not representative of the future financial position, future results of operations or future cash flows of the Validus Business following the Validus Acquisition;
- risks from our increased debt obligations as a result of the Validus Acquisition;
- the dilutive impact on our shareholders from the issuance of common shares to AIG in connection with the Validus Acquisition;
- our exposure to natural and non-natural catastrophic events and circumstances and the variance they may cause in our financial results;
- the effect of climate change on our business, including the trend towards increasingly frequent and severe climate events;
- the effectiveness of our claims and claim expense reserving process;
- the effect of emerging claims and coverage issues;
- the performance of our investment portfolio and financial market volatility;
- the effects of inflation;
- the ability of our ceding companies and delegated authority counterparties to accurately assess the risks they underwrite;
- our ability to maintain our financial strength ratings;

- the highly competitive nature of our industry;
- our reliance on a small number of brokers;
- collection on claimed retrocessional coverage, and new retrocessional reinsurance being available on acceptable terms or at all;
- the historically cyclical nature of the (re)insurance industries;
- our ability to attract and retain key executives and employees;
- our ability to successfully implement our business, strategies and initiatives;
- our exposure to credit loss from counterparties;
- our need to make many estimates and judgments in the preparation of our financial statements;
- our ability to effectively manage capital on behalf of investors in joint ventures or other entities we manage;
- changes to the accounting rules and regulatory systems applicable to our business, including changes in Bermuda and U.S. laws or regulations;
- other political, regulatory or industry initiatives adversely impacting us;
- our ability to comply with covenants in our debt agreements;
- the effect of adverse economic factors, including changes in the prevailing interest rates and recession or the perception that recession may occur;
- the effect of cybersecurity risks, including technology breaches or failure;
- a contention by the IRS that any of our Bermuda subsidiaries are subject to taxation in the U.S.;
- the effects of possible future tax reform legislation and regulations in the jurisdictions in which we operate;
- our ability to determine any impairments taken on our investments;
- our ability to raise capital on acceptable terms, including through debt instruments, the capital markets, and third party investments in our joint ventures and managed fund partners;
- our ability to comply with applicable sanctions and foreign corrupt practices laws; and
- our dependence on the ability of our operating subsidiaries to declare and pay dividends.

As a consequence, our future financial condition and results may differ from those expressed in any forward-looking statements made by or on behalf of us. The factors listed above, which are discussed in more detail in our filings with the SEC, including our Annual Report on Form 10-K for the year ended December 31, 2022, filed with the SEC on February 8, 2023, and Item 1A of this Quarterly Report on Form 10-Q, should not be construed as exhaustive. Forward-looking statements speak only as of the date they are made, and we undertake no obligation to revise or update forward-looking statements to reflect new information, events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

PART I FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

INDEX TO CONSOLIDATED FINANCIAL STATEMENTS

	<u>Page</u>
<u>Consolidated Balance Sheets at June 30, 2023 (unaudited) and December 31, 2022</u>	<u>8</u>
<u>Consolidated Statements of Operations for the three and six months ended June 30, 2023 and 2022</u>	<u>9</u>
<u>Consolidated Statements of Comprehensive Income (Loss) for the three and six months ended June 30, 2023 and 2022</u>	<u>10</u>
<u>Consolidated Statements of Changes in Shareholders' Equity for the three and six months ended June 30, 2023 and 2022</u>	<u>11</u>
<u>Consolidated Statements of Cash Flows for the six months ended June 30, 2023 and 2022</u>	<u>12</u>
<u>Notes to the Consolidated Financial Statements</u>	<u>13</u>
<u>Note 1. Organization</u>	<u>13</u>
<u>Note 2. Significant Accounting Policies</u>	<u>15</u>
<u>Note 3. Investments</u>	<u>15</u>
<u>Note 4. Fair Value Measurements</u>	<u>18</u>
<u>Note 5. Reinsurance</u>	<u>29</u>
<u>Note 6. Reserve for Claims and Claim Expenses</u>	<u>31</u>
<u>Note 7. Debt and Credit Facilities</u>	<u>35</u>
<u>Note 8. Noncontrolling Interests</u>	<u>36</u>
<u>Note 9. Variable Interest Entities</u>	<u>40</u>
<u>Note 10. Shareholders' Equity</u>	<u>45</u>
<u>Note 11. Earnings per Share</u>	<u>46</u>
<u>Note 12. Segment Reporting</u>	<u>47</u>
<u>Note 13. Derivative Instruments</u>	<u>51</u>
<u>Note 14. Commitments and Contingencies and Other Items</u>	<u>57</u>
<u>Note 15. Acquisition of Validus</u>	<u>57</u>
<u>Note 16. Subsequent Event</u>	<u>58</u>

RenaissanceRe Holdings Ltd. and Subsidiaries
Consolidated Balance Sheets
(in thousands of United States Dollars, except share and per share amounts)

	June 30, 2023	December 31, 2022
	(Unaudited)	(Audited)
Assets		
Fixed maturity investments trading, at fair value – amortized cost \$16,398,682 at June 30, 2023 (December 31, 2022 – \$15,038,551)	\$ 15,888,564	\$ 14,351,402
Short term investments, at fair value - amortized cost \$6,374,957 at June 30, 2023 (December 31, 2022 - \$4,671,581)	6,373,969	4,669,272
Equity investments, at fair value	93,058	625,058
Other investments, at fair value	3,091,686	2,494,954
Investments in other ventures, under equity method	89,505	79,750
Total investments	25,536,782	22,220,436
Cash and cash equivalents	943,935	1,194,339
Premiums receivable	6,490,886	5,139,471
Prepaid reinsurance premiums	1,187,177	1,021,412
Reinsurance recoverable	4,689,351	4,710,925
Accrued investment income	147,824	121,501
Deferred acquisition costs	1,300,992	1,171,738
Receivable for investments sold	508,887	350,526
Other assets	358,863	384,702
Goodwill and other intangible assets	235,218	237,828
Total assets	\$ 41,399,915	\$ 36,552,878
Liabilities, Noncontrolling Interests and Shareholders' Equity		
Liabilities		
Reserve for claims and claim expenses	\$ 16,138,128	\$ 15,892,573
Unearned premiums	5,717,302	4,559,107
Debt	1,882,101	1,170,442
Reinsurance balances payable	3,780,410	3,928,281
Payable for investments purchased	547,974	493,776
Other liabilities	254,925	648,036
Total liabilities	28,320,840	26,692,215
Commitments and contingencies		
Redeemable noncontrolling interests	5,676,262	4,535,389
Shareholders' Equity		
Preference shares: \$1.00 par value – 30,000 shares issued and outstanding at June 30, 2023 (December 31, 2022 – 30,000)	750,000	750,000
Common shares: \$1.00 par value – 51,182,221 shares issued and outstanding at June 30, 2023 (December 31, 2022 – 43,717,836)	51,182	43,718
Additional paid-in capital	1,825,215	475,647
Accumulated other comprehensive income (loss)	(14,050)	(15,462)
Retained earnings	4,790,466	4,071,371
Total shareholders' equity attributable to RenaissanceRe	7,402,813	5,325,274
Total liabilities, noncontrolling interests and shareholders' equity	\$ 41,399,915	\$ 36,552,878

See accompanying notes to the consolidated financial statements

RenaissanceRe Holdings Ltd. and Subsidiaries
Consolidated Statements of Operations
For the three and six months ended June 30, 2023 and 2022
(in thousands of United States Dollars, except per share amounts) (Unaudited)

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Revenues				
Gross premiums written	\$ 2,651,621	\$ 2,464,639	\$ 5,441,882	\$ 5,407,603
Net premiums written	\$ 2,195,803	\$ 1,863,616	\$ 4,459,506	\$ 4,028,833
Decrease (increase) in unearned premiums	(410,541)	(407,233)	(993,694)	(1,086,025)
Net premiums earned	1,785,262	1,456,383	3,465,812	2,942,808
Net investment income	292,662	107,211	547,040	190,902
Net foreign exchange gains (losses)	(13,488)	(50,821)	(27,991)	(66,307)
Equity in earnings (losses) of other ventures	7,700	7,383	17,230	993
Other income (loss)	3,876	923	(430)	2,116
Net realized and unrealized gains (losses) on investments	(222,781)	(654,107)	56,670	(1,327,124)
Total revenues	1,853,231	866,972	4,058,331	1,743,388
Expenses				
Net claims and claim expenses incurred	931,211	706,239	1,732,411	1,547,972
Acquisition expenses	422,545	361,238	854,802	737,745
Operational expenses	80,491	72,520	157,965	140,427
Corporate expenses	23,371	12,352	36,214	24,854
Interest expense	14,895	11,895	27,029	23,850
Total expenses	1,472,513	1,164,244	2,808,421	2,474,848
Income (loss) before taxes	380,718	(297,272)	1,249,910	(731,460)
Income tax benefit (expense)	(5,942)	30,534	(34,844)	67,241
Net income (loss)	374,776	(266,738)	1,215,066	(664,219)
Net (income) loss attributable to redeemable noncontrolling interests	(174,907)	(49,331)	(442,291)	(37,419)
Net income (loss) attributable to RenaissanceRe	199,869	(316,069)	772,775	(701,638)
Dividends on preference shares	(8,844)	(8,844)	(17,688)	(17,688)
Net income (loss) available (attributable) to RenaissanceRe common shareholders	\$ 191,025	\$ (324,913)	\$ 755,087	\$ (719,326)
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – basic	\$ 4.10	\$ (7.53)	\$ 16.75	\$ (16.64)
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – diluted	\$ 4.09	\$ (7.53)	\$ 16.71	\$ (16.64)
Dividends per common share	\$ 0.38	\$ 0.37	\$ 0.76	\$ 0.74

See accompanying notes to the consolidated financial statements

RenaissanceRe Holdings Ltd. and Subsidiaries
Consolidated Statements of Comprehensive Income (Loss)
For the three and six months ended June 30, 2023 and 2022
(in thousands of United States Dollars) (Unaudited)

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Comprehensive income (loss)				
Net income (loss)	\$ 374,776	\$ (266,738)	\$ 1,215,066	\$ (664,219)
Change in net unrealized gains (losses) on investments, net of tax	390	(3,251)	1,308	(2,417)
Foreign currency translation adjustments, net of tax	398	917	104	(1,842)
Comprehensive income (loss)	375,564	(269,072)	1,216,478	(668,478)
Net (income) loss attributable to redeemable noncontrolling interests	(174,907)	(49,331)	(442,291)	(37,419)
Comprehensive (income) loss attributable to redeemable noncontrolling interests	(174,907)	(49,331)	(442,291)	(37,419)
Comprehensive income (loss) attributable to RenaissanceRe	<u>\$ 200,657</u>	<u>\$ (318,403)</u>	<u>\$ 774,187</u>	<u>\$ (705,897)</u>

See accompanying notes to the consolidated financial statements

RenaissanceRe Holdings Ltd. and Subsidiaries
Consolidated Statements of Changes in Shareholders' Equity
For the three and six months ended June 30, 2023 and 2022
(in thousands of United States Dollars) (Unaudited)

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Preference shares				
Beginning balance	\$ 750,000	\$ 750,000	\$ 750,000	\$ 750,000
Ending balance	750,000	750,000	750,000	750,000
Common shares				
Beginning balance	43,932	44,193	43,718	44,445
Issuance of shares	7,245	—	7,245	—
Repurchase of shares	—	(298)	—	(875)
Issuance of restricted stock awards	5	(14)	219	311
Ending balance	51,182	43,881	51,182	43,881
Additional paid-in capital				
Beginning balance	467,623	513,631	475,647	608,121
Issuance of shares	1,344,326	—	1,344,326	—
Repurchase of shares	—	(43,799)	—	(136,656)
Change in redeemable noncontrolling interests	(676)	(3,126)	(1,782)	(3,989)
Issuance of restricted stock awards	13,942	12,379	7,024	11,609
Ending balance	1,825,215	479,085	1,825,215	479,085
Accumulated other comprehensive income (loss)				
Beginning balance	(14,838)	(12,834)	(15,462)	(10,909)
Change in net unrealized gains (loss) on investments, net of tax	390	(3,251)	1,308	(2,417)
Foreign currency translation adjustments, net of tax	398	917	104	(1,842)
Ending balance	(14,050)	(15,168)	(14,050)	(15,168)
Retained earnings				
Beginning balance	4,618,818	4,821,970	4,071,371	5,232,624
Net income (loss)	374,776	(266,738)	1,215,066	(664,219)
Net (income) loss attributable to redeemable noncontrolling interests	(174,907)	(49,331)	(442,291)	(37,419)
Dividends on common shares	(19,377)	(16,196)	(35,992)	(32,437)
Dividends on preference shares	(8,844)	(8,844)	(17,688)	(17,688)
Ending balance	4,790,466	4,480,861	4,790,466	4,480,861
Total shareholders' equity	\$ 7,402,813	\$ 5,738,659	\$ 7,402,813	\$ 5,738,659

See accompanying notes to the consolidated financial statements

RenaissanceRe Holdings Ltd. and Subsidiaries
Consolidated Statements of Cash Flows
For the six months ended June 30, 2023 and 2022
(in thousands of United States Dollars) (Unaudited)

	Six months ended	
	June 30, 2023	June 30, 2022
Cash flows provided by (used in) operating activities		
Net income (loss)	\$ 1,215,066	\$ (664,219)
Adjustments to reconcile net income (loss) to net cash provided by (used in) operating activities		
Amortization, accretion and depreciation	(73,232)	9,583
Equity in undistributed (earnings) losses of other ventures	2,831	13,961
Net realized and unrealized (gains) losses on investments	(109,559)	1,220,758
Change in:		
Premiums receivable	(1,351,415)	(1,626,675)
Prepaid reinsurance premiums	(165,765)	(499,843)
Reinsurance recoverable	21,574	62,210
Deferred acquisition costs	(129,254)	(240,266)
Reserve for claims and claim expenses	245,555	148,176
Unearned premiums	1,158,195	1,586,004
Reinsurance balances payable	(147,871)	524,871
Other	(39,451)	(265,391)
Net cash provided by (used in) operating activities	626,674	269,169
Cash flows provided by (used in) investing activities		
Proceeds from sales and maturities of fixed maturity investments trading	8,149,227	10,527,219
Purchases of fixed maturity investments trading	(9,719,075)	(11,743,171)
Net sales (purchases) of equity investments	546,399	(286,399)
Net sales (purchases) of short term investments	(1,656,772)	939,736
Net sales (purchases) of other investments	(490,366)	(397,523)
Net sales (purchases) of investments in other ventures	(13,048)	2,391
Return of investment from investment in other ventures	2,369	2,213
Net cash provided by (used in) investing activities	(3,181,266)	(955,534)
Cash flows provided by (used in) financing activities		
Dividends paid – RenaissanceRe common shares	(35,992)	(32,437)
Dividends paid – preference shares	(17,688)	(17,780)
RenaissanceRe common share issuance, net of expenses	1,352,583	—
RenaissanceRe common share repurchases	—	(141,356)
Issuance of debt, net of expenses	741,597	—
Repayment of debt	(30,000)	—
Net third-party redeemable noncontrolling interest share transactions	310,135	408,774
Taxes paid on withholding shares	(18,837)	(10,848)
Net cash provided by (used in) financing activities	2,301,798	206,353
Effect of exchange rate changes on foreign currency cash	2,390	19,088
Net increase (decrease) in cash and cash equivalents	(250,404)	(460,924)
Cash and cash equivalents, beginning of period	1,194,339	1,859,019
Cash and cash equivalents, end of period	\$ 943,935	\$ 1,398,095

See accompanying notes to the consolidated financial statements

RENAISSANCERE HOLDINGS LTD. AND SUBSIDIARIES
NOTES TO THE CONSOLIDATED FINANCIAL STATEMENTS
June 30, 2023

(unless otherwise noted, amounts in tables expressed in thousands of United States ("U.S.") dollars,
except shares, per share amounts and percentages) (Unaudited)

NOTE 1. ORGANIZATION

This report on Form 10-Q should be read in conjunction with RenaissanceRe's Annual Report on Form 10-K for the fiscal year ended December 31, 2022 ("Form 10-K"). RenaissanceRe was formed under the laws of Bermuda on June 7, 1993. Together with its wholly owned and majority-owned subsidiaries, joint ventures and managed funds, the Company provides property, casualty and specialty reinsurance and certain insurance solutions to its customers.

- Renaissance Reinsurance Ltd. ("Renaissance Reinsurance"), a Bermuda-domiciled reinsurance company, is the Company's principal reinsurance subsidiary and provides property, casualty and specialty reinsurance coverages to insurers and reinsurers on a worldwide basis.
- Renaissance Reinsurance U.S. Inc. ("Renaissance Reinsurance U.S.") is a reinsurance company domiciled in the state of Maryland that provides property, casualty and specialty reinsurance coverages to insurers and reinsurers, primarily in the Americas.
- RenaissanceRe Syndicate 1458 ("Syndicate 1458") is the Company's Lloyd's syndicate. RenaissanceRe Corporate Capital (UK) Limited ("RenaissanceRe CCL"), a wholly owned subsidiary of RenaissanceRe, is Syndicate 1458's sole corporate member. RenaissanceRe Syndicate Management Ltd. ("RSML"), a wholly owned subsidiary of RenaissanceRe, is the managing agent for Syndicate 1458.
- RenaissanceRe Europe AG ("RREAG"), a Swiss-domiciled reinsurance company, which has branches in Australia, Bermuda, the U.K. and the U.S., provides property, casualty and specialty reinsurance coverages to insurers and reinsurers on a worldwide basis.
- RenaissanceRe Specialty U.S. Ltd. ("RenaissanceRe Specialty U.S."), a Bermuda-domiciled insurer, which operates subject to U.S. federal income tax.
- DaVinci Reinsurance Ltd. ("DaVinci Reinsurance"), a wholly-owned subsidiary of DaVinciRe Holdings Ltd. ("DaVinci"), is a managed joint venture formed by the Company to principally write property catastrophe reinsurance and certain casualty and specialty reinsurance lines of business on a global basis.
- Vermeer Reinsurance Ltd. ("Vermeer") is a managed joint venture formed by the Company to provide capacity focused on risk remote layers in the U.S. property catastrophe market. The Company maintains a majority voting control of Vermeer, while Stichting Pensioenfonds Zorg en Welzijn ("PFZW"), a pension fund represented by PGGM Vermogensbeheer B.V., a Dutch pension fund manager, retains economic benefits.
- Fontana Holdings L.P. and its subsidiaries (collectively, "Fontana") are a managed joint venture formed by the Company to assume casualty and specialty risks in line with the Company's book of business. Fontana launched effective April 1, 2022.
- Top Layer Reinsurance Ltd. ("Top Layer") is a managed joint venture formed by the Company to write high excess non-U.S. property catastrophe reinsurance.
- RenaissanceRe Underwriting Managers U.S. LLC, is licensed as a reinsurance intermediary broker in the State of Connecticut and underwrites specialty treaty reinsurance solutions on both a quota share and excess of loss basis on behalf of affiliates.
- Renaissance Underwriting Managers, Ltd. ("RUM"), a wholly-owned subsidiary of RenaissanceRe, is the exclusive underwriting manager for certain of our joint ventures or managed funds in return for a management fee, performance fee, or both.
- RenaissanceRe Fund Management Ltd. ("RFM") is a wholly-owned Bermuda exempted company and is the exclusive investment fund manager for several of the Company's joint ventures or managed

funds, in return for a management fee, a performance based incentive fee, or both. RFM is an Exempt Reporting Adviser with the Securities and Exchange Commission and serves as the investment adviser to third-party investors in the various private investment partnerships and insurance-related investment products offered by the Company.

- RenaissanceRe Medici Fund Ltd. ("Medici") is an exempted company, incorporated in Bermuda and registered as an institutional fund. Medici invests, primarily on behalf of third-party investors, in various instruments that have returns primarily tied to property catastrophe risk.
- Upsilon RFO Re Ltd. ("Upsilon RFO"), an exempted company incorporated in Bermuda and registered as a segregated accounts company and as a collateralized insurer, is a managed fund formed by the Company principally to provide additional capacity to the worldwide aggregate and per-occurrence primary and retrocessional property catastrophe excess of loss market.
- RenaissanceRe Upsilon Fund Ltd., an exempted company incorporated in Bermuda and registered as a segregated accounts company and a Class A Professional Fund, provides a fund structure through which third-party investors can invest in reinsurance risk managed by the Company.
- Mona Lisa Re Ltd. ("Mona Lisa Re"), a Bermuda domiciled special purpose insurer ("SPI"), provides reinsurance capacity to subsidiaries of RenaissanceRe through reinsurance agreements which are collateralized and funded by Mona Lisa Re through the issuance of one or more series of principal-at-risk variable rate notes.
- Fibonacci Reinsurance Ltd. ("Fibonacci Re"), an exempted company incorporated in Bermuda and registered as an SPI, was formed to provide collateralized capacity to Renaissance Reinsurance and its affiliates. Fibonacci Re raises capital from third-party investors and the Company, via private placements of participating notes which are listed on the Bermuda Stock Exchange.
- The Company and Reinsurance Group of America, Incorporated formed an initiative ("Langhorne") to source third-party capital to support reinsurers targeting large in-force life and annuity blocks. Langhorne's capital commitment period expired at the end of December 2022 and the Langhorne entities have been, or are, in the process of winding down.
- Following the acquisition of Tokio Millennium Re AG and certain associated entities and subsidiaries (collectively, "TMR") on March 22, 2019, the Company managed Shima Reinsurance Ltd. ("Shima Re"), Norwood Re Ltd. ("Norwood Re") and Blizzard Re Ltd. ("Blizzard," together with Shima Re and Norwood Re, the "TMR managed third-party capital vehicles"), which provided third-party investors with access to reinsurance risk. The TMR managed third-party capital vehicles no longer write new business. The Company ceased providing management services to Blizzard effective November 1, 2020, and to Shima Re and Norwood Re effective December 1, 2020.

NOTE 2. SIGNIFICANT ACCOUNTING POLICIES

There have been no material changes to the Company's significant accounting policies as described in its Form 10-K for the year ended December 31, 2022, except as described below.

BASIS OF PRESENTATION

These consolidated financial statements have been prepared on the basis of accounting principles generally accepted in the U.S. ("GAAP") for interim financial information and in conformity with the instructions to Form 10-Q and Article 10 of Regulation S-X. Accordingly, they do not include all of the information and footnotes required by GAAP for complete consolidated financial statements. In the opinion of management, these unaudited consolidated financial statements reflect all adjustments (consisting of normal recurring accruals) 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 from these statements.

Certain comparative information has been reclassified to conform to the current presentation. Because of the seasonality of the Company's business, the results of operations and cash flows for any interim period will not necessarily be indicative of the results of operations and cash flows for the full fiscal year or subsequent quarters.

USE OF ESTIMATES IN FINANCIAL STATEMENTS

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported and disclosed amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the consolidated financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ materially from those estimates. The major estimates reflected in the Company's consolidated financial statements include, but are not limited to, the reserve for claims and claim expenses; reinsurance recoverable and premiums receivable, including provisions for reinsurance recoverable and premiums receivable to reflect expected credit losses; estimates of written and earned premiums; fair value, including the fair value of investments, financial instruments and derivatives; impairment charges; and the Company's deferred tax valuation allowance.

NOTE 3. INVESTMENTS

Fixed Maturity Investments Trading

The following table summarizes the fair value of fixed maturity investments trading:

	June 30, 2023	December 31, 2022
U.S. treasuries	\$ 8,592,242	\$ 7,180,129
Corporate ⁽¹⁾	4,371,407	4,390,568
Agencies	476,476	395,149
Non-U.S. government	401,743	383,838
Residential mortgage-backed	788,256	710,429
Commercial mortgage-backed	209,661	213,987
Asset-backed	1,048,779	1,077,302
Total fixed maturity investments trading	<u>\$ 15,888,564</u>	<u>\$ 14,351,402</u>

(1) Corporate fixed maturity investments include non-U.S. government-backed corporate fixed maturity investments.

Contractual maturities of fixed maturity investments trading are described in the following table. Expected maturities will differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties.

	June 30, 2023		December 31, 2022	
	Amortized Cost	Fair Value	Amortized Cost	Fair Value
Due in less than one year	\$ 522,097	\$ 515,445	\$ 364,501	\$ 356,770
Due after one through five years	8,653,072	8,444,588	8,117,971	7,875,771
Due after five through ten years	4,748,683	4,578,779	4,072,142	3,805,287
Due after ten years	331,809	303,056	356,268	311,856
Mortgage-backed	1,073,223	997,917	1,009,205	924,416
Asset-backed	1,069,798	1,048,779	1,118,464	1,077,302
Total	<u>\$ 16,398,682</u>	<u>\$ 15,888,564</u>	<u>\$ 15,038,551</u>	<u>\$ 14,351,402</u>

Equity Investments

The following table summarizes the fair value of equity investments:

	June 30, 2023	December 31, 2022
Financials	\$ 92,890	\$ 103,250
Consumer	155	33,447
Communications and technology	13	48,687
Fixed income exchange traded funds	—	295,481
Equity exchange traded funds	—	90,510
Industrial, utilities and energy	—	25,326
Healthcare	—	24,617
Basic materials	—	3,740
Total	<u>\$ 93,058</u>	<u>\$ 625,058</u>

Pledged Investments

At June 30, 2023, \$7.3 billion (December 31, 2022 - \$7.9 billion) of cash and investments at fair value were on deposit with, or in trust accounts for the benefit of, various counterparties, including with respect to the Company's letter of credit facilities. Of this amount, \$1.3 billion (December 31, 2022 - \$1.2 billion) is on deposit with, or in trust accounts for the benefit of, U.S. state regulatory authorities.

Reverse Repurchase Agreements

At June 30, 2023, the Company held \$486.2 million (December 31, 2022 - \$38.5 million) of reverse repurchase agreements. These loans are fully collateralized, are generally outstanding for a short period of time and are presented on a gross basis as part of short term investments on the Company's consolidated balance sheets. The required collateral for these loans typically includes high-quality, readily marketable instruments at a minimum amount of 102% of the loan principal. Upon maturity, the Company receives principal and interest income.

Net Investment Income

The components of net investment income are as follows:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Fixed maturity investments trading	\$ 169,739	\$ 76,547	\$ 325,239	\$ 138,964
Short term investments	50,231	4,397	83,181	5,533
Equity investments	2,766	4,516	6,165	7,270
Other investments				
Catastrophe bonds	49,522	20,235	88,353	37,595
Other	20,820	6,894	45,391	12,446
Cash and cash equivalents	4,585	(95)	8,849	(136)
	297,663	112,494	557,178	201,672
Investment expenses	(5,001)	(5,283)	(10,138)	(10,770)
Net investment income	\$ 292,662	\$ 107,211	\$ 547,040	\$ 190,902

Net Realized and Unrealized Gains (Losses) on Investments

Net realized and unrealized gains (losses) on investments are as follows:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Net realized gains (losses) on fixed maturity investments trading	\$ (74,212)	\$ (287,154)	\$ (178,977)	\$ (408,306)
Net unrealized gains (losses) on fixed maturity investments trading	(139,793)	(149,820)	172,233	(613,997)
Net realized and unrealized gains (losses) on fixed maturity investments trading	(214,005)	(436,974)	(6,744)	(1,022,303)
Net realized and unrealized gains (losses) on investment-related derivatives ⁽¹⁾	(65,051)	(66,078)	(52,889)	(106,366)
Net realized gains (losses) on equity investments	(18,755)	35,592	(27,493)	35,572
Net unrealized gains (losses) on equity investments	20,627	(127,104)	59,778	(175,773)
Net realized and unrealized gains (losses) on equity investments	1,872	(91,512)	32,285	(140,201)
Net realized and unrealized gains (losses) on other investments - catastrophe bonds	38,186	(24,660)	62,312	(32,921)
Net realized and unrealized gains (losses) on other investments - other	16,217	(34,883)	21,706	(25,333)
Net realized and unrealized gains (losses) on investments	\$ (222,781)	\$ (654,107)	\$ 56,670	\$ (1,327,124)

(1) Net realized and unrealized gains (losses) on investment-related derivatives includes fixed maturity investments related derivatives (interest rate futures, interest rate swaps, credit default swaps and total return swaps), and equity investments related derivatives (equity futures). See "Note 13. Derivative Instruments" for additional information.

Net Sales (Purchases) of Investments

The tables below show the Company's cash flows in respect of gross and net purchases and sales of equity investments, short term investments, other investments and investments in other ventures for the six months ended June 30, 2023 and 2022.

<u>Six months ended June 30, 2023</u>	<u>Gross Purchases</u>	<u>Gross Sales</u>	<u>Net</u>
Equity investments	\$ (1,687)	\$ 548,086	\$ 546,399
Short term investments	\$ (19,067,333)	\$ 17,410,561	\$ (1,656,772)
Other investments	\$ (750,539)	\$ 260,173	\$ (490,366)
Investments in other ventures	\$ (13,048)	\$ —	\$ (13,048)

<u>Six months ended June 30, 2022</u>	<u>Gross Purchases</u>	<u>Gross Sales</u>	<u>Net</u>
Equity investments	\$ (498,171)	\$ 211,772	\$ (286,399)
Short term investments	\$ (13,619,935)	\$ 14,559,671	\$ 939,736
Other investments	\$ (682,151)	\$ 284,628	\$ (397,523)
Investments in other ventures	\$ (949)	\$ 3,340	\$ 2,391

NOTE 4. FAIR VALUE MEASUREMENTS

The use of fair value to measure certain assets and liabilities with resulting unrealized gains or losses is pervasive within the Company's consolidated financial statements. Fair value is defined under accounting guidance currently applicable to the Company as the price that would be received upon the sale of an asset or paid to transfer a liability in an orderly transaction between open market participants at the measurement date. The Company recognizes the change in unrealized gains or losses arising from changes in fair value in its consolidated statements of operations.

FASB ASC Topic *Fair Value Measurements and Disclosures* prescribes a fair value hierarchy that prioritizes the inputs to the respective valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to valuation techniques that use at least one significant input that is unobservable (Level 3). The three levels of the fair value hierarchy are described below:

- Fair values determined by Level 1 inputs utilize unadjusted quoted prices obtained from active markets for identical assets or liabilities for which the Company has access at the measurement date. The fair value is determined by multiplying the quoted price by the quantity held by the Company;
- Fair values determined by Level 2 inputs utilize inputs (other than quoted prices included in Level 1) that are observable for the asset or liability, either directly or indirectly. Level 2 inputs include quoted prices for similar assets and liabilities in active markets, and inputs other than quoted prices that are observable for the asset or liability, such as interest rates and yield curves that are observable at commonly quoted intervals, broker quotes and certain pricing indices; and
- Level 3 inputs are based all or in part on significant unobservable inputs for the asset or liability, and include situations where there is little, if any, market activity for the asset or liability. In these cases, significant management assumptions can be used to establish management's best estimate of the assumptions used by other market participants in determining the fair value of the asset or liability.

In certain cases, the inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, the level in the fair value hierarchy within which the fair value measurement in its entirety falls has been determined based on the lowest level input that is significant to the fair value measurement of the asset or liability. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires judgment, and the Company considers factors specific to the asset or liability.

In order to determine if a market is active or inactive for a security, the Company considers a number of factors, including, but not limited to, the spread between what a seller is asking for a security and what a buyer is bidding for the same security, the volume of trading activity for the security in question, the price of

the security compared to its par value (for fixed maturity investments), and other factors that may be indicative of market activity.

There have been no material changes in the Company's valuation techniques, nor have there been any transfers between Level 1 and Level 2, or Level 2 and Level 3 during the period represented by these consolidated financial statements.

Below is a summary of the assets and liabilities that are measured at fair value on a recurring basis and also represents the carrying amount on the Company's consolidated balance sheets:

At June 30, 2023	Total	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Fixed maturity investments trading				
U.S. treasuries	\$ 8,592,242	\$ 8,592,242	\$ —	\$ —
Corporate ⁽¹⁾	4,371,407	—	4,371,407	—
Agencies	476,476	—	476,476	—
Non-U.S. government	401,743	—	401,743	—
Residential mortgage-backed	788,256	—	788,256	—
Commercial mortgage-backed	209,661	—	209,661	—
Asset-backed	1,048,779	—	1,048,779	—
Total fixed maturity investments trading	15,888,564	8,592,242	7,296,322	—
Short term investments	6,373,969	94,474	6,279,495	—
Equity investments trading	93,058	93,058	—	—
Other investments				
Catastrophe bonds	1,679,184	—	1,679,184	—
Term loans	100,000	—	—	100,000
Direct private equity investments	71,155	—	—	71,155
	1,850,339	—	1,679,184	171,155
Fund investments ⁽²⁾	1,241,347	—	—	—
Total other investments	3,091,686	—	1,679,184	171,155
Other assets and (liabilities)				
Assumed and ceded (re)insurance contracts ⁽³⁾	(475)	—	—	(475)
Derivative assets ⁽⁴⁾	25,307	370	24,937	—
Derivative liabilities ⁽⁴⁾	(14,989)	(2,113)	(12,876)	—
Total other assets and (liabilities)	9,843	(1,743)	12,061	(475)
	<u>\$ 25,457,120</u>	<u>\$ 8,778,031</u>	<u>\$ 15,267,062</u>	<u>\$ 170,680</u>

(1) Corporate fixed maturity investments include non-U.S. government-backed corporate fixed maturity investments.

(2) Fund investments, which may include private equity funds, private credit funds, and hedge funds, are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient and have not been classified in the fair value hierarchy. The fair value presented in this table is provided to permit reconciliation of the fair value hierarchy to the amounts presented in the consolidated balance sheet.

(3) Included in assumed and ceded (re)insurance contracts at June 30, 2023 was \$0.6 million of other assets and \$1.0 million of other liabilities.

(4) Refer to "Note 13. Derivative Instruments" for additional information related to the fair value, by type of contract, of derivatives entered into by the Company.

<u>At December 31, 2022</u>	<u>Total</u>	<u>Quoted Prices in Active Markets for Identical Assets (Level 1)</u>	<u>Significant Other Observable Inputs (Level 2)</u>	<u>Significant Unobservable Inputs (Level 3)</u>
Fixed maturity investments trading				
U.S. treasuries	\$ 7,180,129	\$ 7,180,129	\$ —	\$ —
Corporate ⁽¹⁾	4,390,568	—	4,390,568	—
Agencies	395,149	—	395,149	—
Non-U.S. government	383,838	—	383,838	—
Residential mortgage-backed	710,429	—	710,429	—
Commercial mortgage-backed	213,987	—	213,987	—
Asset-backed	1,077,302	—	1,077,302	—
Total fixed maturity investments trading	14,351,402	7,180,129	7,171,273	—
Short term investments	4,669,272	—	4,669,272	—
Equity investments	625,058	625,058	—	—
Other investments				
Catastrophe bonds	1,241,468	—	1,241,468	—
Term loans	100,000	—	—	100,000
Direct private equity investments	66,780	—	—	66,780
	1,408,248	—	1,241,468	166,780
Fund investments ⁽²⁾	1,086,706	—	—	—
Total other investments	2,494,954	—	1,241,468	166,780
Other assets and (liabilities)				
Assumed and ceded (re)insurance contracts ⁽³⁾	(1,832)	—	—	(1,832)
Derivative assets ⁽⁴⁾	44,400	387	44,013	—
Derivative liabilities ⁽⁴⁾	(7,560)	(2,008)	(5,552)	—
Total other assets and (liabilities)	35,008	(1,621)	38,461	(1,832)
	\$ 22,175,694	\$ 7,803,566	\$ 13,120,474	\$ 164,948

(1) Corporate fixed maturity investments include non-U.S. government-backed corporate fixed maturity investments.

(2) Fund investments, which may include private equity funds, private credit funds and hedge funds, are measured at fair value using the net asset value per share (or its equivalent) as a practical expedient and have not been classified in the fair value hierarchy. The fair value presented in this table is provided to permit reconciliation of the fair value hierarchy to the amounts presented in the consolidated balance sheet.

(3) Included in assumed and ceded (re)insurance contracts at December 31, 2022 was \$3.5 million of other assets and \$5.3 million of other liabilities.

(4) Refer to "Note 13. Derivative Instruments" for additional information related to the fair value, by type of contract, of derivatives entered into by the Company.

Level 1 and Level 2 Assets and Liabilities Measured at Fair Value

Fixed Maturity Investments

Fixed maturity investments included in Level 1 consist of the Company's investments in U.S. treasuries. Fixed maturity investments included in Level 2 are agencies, corporate (including non-U.S. government-backed corporate), non-U.S. government, residential mortgage-backed, commercial mortgage-backed and asset-backed.

The Company's fixed maturity investments are primarily priced using pricing services, such as index providers and pricing vendors, as well as broker quotations. In general, the pricing vendors provide pricing 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. Observable inputs include benchmark yields, reported trades, broker-dealer quotes, issuer spreads, bids, offers, reference data and industry and economic events. Index pricing generally relies on market traders as the primary source for pricing; however, models are also utilized to provide prices for all index eligible securities. The models use a variety of observable inputs such as benchmark yields, transactional data, dealer runs, broker-dealer quotes and corporate actions. Prices are generally verified using third-party data. Securities which are priced by an index provider are generally included in the index.

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 and non-distressed markets.

The Company considers these broker quotations to be 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. Treasuries

Level 1 - At June 30, 2023, the Company's U.S. treasuries fixed maturity investments were primarily priced by pricing services and had a weighted average yield to maturity of 4.5% and a weighted average credit quality of AA (December 31, 2022 - 4.3% and AA, respectively). When pricing these securities, the pricing services utilize daily data from many real time market sources, including active broker-dealers. Certain data sources are regularly reviewed for accuracy to attempt to ensure the most reliable price source is used for each issue and maturity date.

Corporate

Level 2 - At June 30, 2023, the Company's corporate fixed maturity investments principally consisted of U.S. and international corporations and non-U.S. government-backed corporations and had a weighted average yield to maturity of 6.4% and a weighted average credit quality of BBB (December 31, 2022 - 6.3% and BBB, respectively).

The Company's corporate fixed maturity investments, other than non-U.S. government-backed corporations, 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.

Non-U.S. government-backed corporate fixed maturity investments are primarily priced by pricing services that 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 quality credits. The pricing services then apply a credit spread to the respective curve 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.

Agencies

Level 2 - At June 30, 2023, the Company's agency fixed maturity investments had a weighted average yield to maturity of 5.1% and a weighted average credit quality of AA (December 31, 2022 - 4.6% and AA, respectively). The issuers of the Company's agency fixed maturity investments primarily consist of the Federal National Mortgage Association, the Federal Home Loan Mortgage Corporation and other agencies. Fixed maturity investments included in agencies 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.

Non-U.S. Government

Level 2 - At June 30, 2023, the Company's non-U.S. government fixed maturity investments had a weighted average yield to maturity of 4.8% and a weighted average credit quality of AA (December 31, 2022 - 4.7% and AA, respectively). The issuers of securities in this sector are non-U.S. governments and their respective agencies as well as supranational organizations. Securities held in these sectors are primarily priced by pricing services that 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.

Residential Mortgage-backed

Level 2 - At June 30, 2023, the Company's residential mortgage-backed fixed maturity investments had a weighted average yield of maturity of 5.5%, a weighted average credit quality of A, and a weighted average life of 8.1 years (December 31, 2022 - 5.4%, A and 8.6 years, respectively). Residential mortgage-backed securities include both agency and non-agency mortgage-backed securities. The Company's agency mortgage-backed fixed maturity investments are primarily priced by pricing services using a mortgage pool specific model which utilizes daily inputs from the active to-be-announced 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 active market quotes.

Non-agency mortgage-based securities 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.

Commercial Mortgage-backed

Level 2 - At June 30, 2023, the Company's commercial mortgage-backed fixed maturity investments had a weighted average yield to maturity of 8.6%, a weighted average credit quality of AA, and a weighted average life of 2.4 years (December 31, 2022 - 7.4%, AA and 3.2 years, respectively). 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 discount the expected cash flows for each security held in this sector using a spread adjusted benchmark yield based on the characteristics of the security.

Asset-backed

Level 2 - At June 30, 2023, the Company's asset-backed fixed maturity investments had a weighted average yield to maturity of 7.4%, a weighted average credit quality of AA and a weighted average life of 4.6 years (December 31, 2022 - 7.4%, AA and 5.2 years, respectively). The underlying collateral for the Company's asset-backed fixed maturity investments primarily consists of collateralized loan obligations and other receivables. 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.

Short Term Investments

Level 1 - At June 30, 2023, the Company's short term investments in U.S. treasuries were primarily priced by pricing services and had a weighted average yield to maturity of 5.1% and a weighted average credit quality of AAA (December 31, 2022 - 4.0% and AAA). When pricing these securities, the pricing services utilize daily data from many real time market sources, including active broker-dealers. Certain data sources are regularly reviewed for accuracy to attempt to ensure the most reliable price source is used for each issue and maturity date.

Level 2 - At June 30, 2023, the Company's other short term investments had a weighted average yield to maturity of 5.1% and a weighted average credit quality of AAA (December 31, 2022 - 4.2% and AAA, respectively). Amortized cost approximates fair value for the majority of the remainder of the Company's short term investments portfolio and, in certain cases, fair value is determined in a manner similar to the Company's fixed maturity investments noted above.

Equity Investments

Level 1 - The fair value of the Company's portfolio of equity investments, classified as trading is primarily priced by pricing services, reflecting the closing price quoted for the final trading day of the period. When pricing these securities, the pricing services utilize daily data from many real time market sources, including applicable securities exchanges. All data sources are regularly reviewed for accuracy to attempt to ensure the most reliable price source was used for each security.

Other Investments

Catastrophe Bonds

Level 2 - The Company's other investments include investments in catastrophe bonds which are recorded at fair value based on broker or underwriter bid indications.

Other Assets and Liabilities

Derivatives

Level 1 and Level 2 - Other assets and liabilities include certain derivatives entered into by the Company. The fair value of these transactions includes certain exchange traded futures contracts which are considered Level 1, and foreign currency contracts and certain credit derivatives, determined using standard industry valuation models and considered Level 2, as the inputs to the valuation model are based on observable market inputs. For credit derivatives, these inputs include credit spreads, credit ratings of the underlying referenced security, the risk-free rate and the contract term. For foreign currency contracts, these inputs include spot rates and interest rate curves.

Level 3 Assets and Liabilities Measured at Fair Value

Below is a summary of quantitative information regarding the significant unobservable inputs (Level 3) used in determining the fair value of assets and liabilities measured at fair value on a recurring basis:

<u>At June 30, 2023</u>	<u>Fair Value (Level 3)</u>	<u>Valuation Technique</u>	<u>Unobservable Inputs</u>	<u>Low</u>	<u>High</u>	<u>Weighted Average or Actual</u>
Other investments						
Direct private equity investments	\$ 71,155	Internal valuation model	Discount rate	n/a	n/a	10.0%
			Liquidity discount	n/a	n/a	15.0 %
Term loans	100,000	Discounted cash flow	Credit spread adjustment	n/a	n/a	0.2 %
			Risk premium	n/a	n/a	2.6 %
Total other investments	171,155					
Other assets and (liabilities)						
Assumed and ceded (re)insurance contracts	(475)	Internal valuation model	Net undiscounted cash flows	n/a	n/a	\$ 12,389
			Expected loss ratio	n/a	n/a	2.9 %
			Discount rate	n/a	n/a	4.0 %
Total other assets and (liabilities)	(475)					
Total assets and (liabilities) measured at fair value on a recurring basis using Level 3 inputs	\$ 170,680					

<u>At December 31, 2022</u>	<u>Fair Value (Level 3)</u>	<u>Valuation Technique</u>	<u>Unobservable Inputs</u>	<u>Low</u>	<u>High</u>	<u>Weighted Average or Actual</u>
Other investments						
Direct private equity investments	\$ 66,780	Internal valuation model	Discount rate	n/a	n/a	7.5 %
			Liquidity discount	n/a	n/a	15.0 %
Term loans	100,000	Discounted cash flow	Credit spread Adjustment	n/a	n/a	0.2 %
			Risk premium	n/a	n/a	2.6 %
Total other investments	166,780					
Other assets and (liabilities)						
Assumed and ceded (re)insurance contracts	(1,832)	Internal valuation model	Net undiscounted cash flows	n/a	n/a	\$ 14,734
			Expected loss ratio	n/a	n/a	5.8 %
			Discount rate	n/a	n/a	4.0 %
Total other assets and (liabilities)	(1,832)					
Total assets and (liabilities) measured at fair value on a recurring basis using Level 3 inputs	\$ 164,948					

Below is a reconciliation of the beginning and ending balances, for the periods shown, of assets and liabilities measured at fair value on a recurring basis using Level 3 inputs.

	Other investments		Other assets and (liabilities)	Total
	Direct private equity investments	Term loans		
Balance - April 1, 2023	\$ 67,532	\$ 100,000	\$ (1,112)	\$ 166,420
Included in net investment income	62	—	—	62
Included in net realized and unrealized gains (losses) on investments	3,548	—	—	3,548
Included in other income (loss)	—	—	(1,029)	(1,029)
Total foreign exchange gains (losses)	13	—	—	13
Purchases	—	—	1,666	1,666
Balance - June 30, 2023	<u>\$ 71,155</u>	<u>\$ 100,000</u>	<u>\$ (475)</u>	<u>\$ 170,680</u>

	Other investments		Other assets and (liabilities)	Total
	Direct private equity investments	Term loans		
Balance - January 1, 2023	\$ 66,780	\$ 100,000	\$ (1,832)	\$ 164,948
Included in net investment income	124	—	—	124
Included in net realized and unrealized gains (losses) on investments	4,257	—	—	4,257
Included in other income (loss)	—	—	(9)	(9)
Total foreign exchange gains (losses)	(6)	—	—	(6)
Purchases	—	—	1,366	1,366
Balance - June 30, 2023	<u>\$ 71,155</u>	<u>\$ 100,000</u>	<u>\$ (475)</u>	<u>\$ 170,680</u>

	Other investments		Other assets and (liabilities)	Total
	Direct private equity investments	Term loans		
Balance - April 1, 2022	\$ 80,213	\$ 85,000	\$ (4,099)	\$ 161,114
Included in net investment income	—	—	—	—
Included in net realized and unrealized gains (losses) on investments	(3,603)	—	—	(3,603)
Included in other income (loss)	—	—	280	280
Purchases	5,000	15,000	755	20,755
Balance - June 30, 2022	<u>\$ 81,610</u>	<u>\$ 100,000</u>	<u>\$ (3,064)</u>	<u>\$ 178,546</u>

	Other investments		Other assets and (liabilities)	Total
	Direct private equity investments	Term loans		
Balance - January 1, 2022	\$ 88,373	\$ 74,850	\$ (4,727)	\$ 158,496
Included in net investment income	—	605	—	605
Included in net realized and unrealized gains (losses) on investments	(11,753)	—	—	(11,753)
Included in other income (loss)	—	—	1,189	1,189
Total foreign exchange losses	(10)	—	—	(10)
Purchases	5,000	25,000	474	30,474
Settlements	—	(455)	—	(455)
Balance - June 30, 2022	<u>\$ 81,610</u>	<u>\$ 100,000</u>	<u>\$ (3,064)</u>	<u>\$ 178,546</u>

Other Investments

Direct private equity investments

Level 3 - At June 30, 2023, the Company's other investments included \$71.2 million (December 31, 2022 - \$66.8 million) of direct private equity investments which are recorded at fair value, with the fair value obtained through the use of internal valuation models. The Company measured the fair value of these investments using multiples of net tangible book value of the underlying entities. The significant unobservable inputs used in the fair value measurement of these investments are liquidity discount rates applied to each of the net tangible book value multiples used in the internal valuation models, and discount rates applied to the expected cash flows of the underlying entities in various scenarios. These unobservable inputs in isolation can cause significant increases or decreases in fair value. Generally, an increase in the liquidity discount rate or discount rates would result in a decrease in the fair value of these private equity investments.

Term Loans

Level 3 - At June 30, 2023, the Company's other investments included a \$100.0 million (December 31, 2022 - \$100.0 million) investment in a term loan which is recorded at fair value, with the fair value obtained through the use of a discounted cash flow model. The significant unobservable inputs used in the discounted cash flow model are the cash flow projection of the associated term loan, and the discount rate. The discount rate used is based on the Secured Overnight Financing Rate, or SOFR, which is then adjusted for credit risk and a risk premium. These adjustments may be impacted by market movements implied by transactions of similar or related assets, loan-to-value, tenor, liquidity, credit risk adjustment or other risk factors. Assumptions used in the valuation process may significantly impact the resulting fair value.

Other Assets and Liabilities

Assumed and Ceded (Re)insurance Contracts

Level 3 - At June 30, 2023, the Company had a \$0.5 million net liability (December 31, 2022 - \$1.8 million net liability) related to assumed and ceded (re)insurance contracts accounted for at fair value, with the fair value obtained through the use of an internal valuation model. The inputs to the internal valuation model are principally based on proprietary data as observable market inputs are generally not available. The most significant unobservable inputs include the assumed and ceded expected net cash flows related to the contracts, including the expected premium, acquisition expenses and losses; the expected loss ratio and the relevant discount rate used to present value the net cash flows. The contract period and acquisition expense ratio are considered an observable input as each is defined in the contract. Generally, an increase in the net expected cash flows and expected term of the contract and a decrease in the discount rate, expected loss ratio or acquisition expense ratio, would result in an increase in the expected profit and ultimate fair value of these assumed and ceded (re)insurance contracts.

Financial Instruments Disclosed, But Not Carried, at Fair Value

The Company uses various financial instruments in the normal course of its business. The Company's (re)insurance contracts are excluded from the fair value of financial instruments accounting guidance, unless the Company elects the fair value option, and therefore, are not included in the amounts discussed herein. The carrying values of cash and cash equivalents, accrued investment income, receivables for investments sold, certain other assets, payables for investments purchased, certain other liabilities, and other financial instruments not included herein approximated their fair values.

Debt

Included on the Company's consolidated balance sheet at June 30, 2023 were debt obligations of \$1.9 billion (December 31, 2022 - \$1.2 billion). At June 30, 2023, the fair value of the Company's debt obligations was \$1.8 billion (December 31, 2022 - \$1.1 billion).

The fair value of the Company's debt obligations is determined using indicative market pricing obtained from third-party service providers, which the Company considers Level 2 in the fair value hierarchy. There have been no changes during the period in the Company's valuation technique used to determine the fair value of the Company's debt obligations. Refer to "Note 7. Debt and Credit Facilities" for additional information related to the Company's debt obligations.

The Fair Value Option for Financial Assets and Financial Liabilities

The Company has elected to account for certain financial assets and financial liabilities at fair value using the guidance under FASB ASC Topic *Financial Instruments* as the Company believes it represents the most meaningful measurement basis for these assets and liabilities. Below is a summary of the balances the Company has elected to account for at fair value:

	June 30, 2023	December 31, 2022
Other investments	\$ 3,091,686	\$ 2,494,954
Other assets	\$ 557	\$ 3,499
Other liabilities	\$ 1,032	\$ 5,331

The change in fair value of other investments resulted in net unrealized gains on investments for the three and six months ended June 30, 2023 of \$50.2 million and \$80.4 million, respectively (June 30, 2022 – net unrealized losses of \$64.6 million and \$70.7 million, respectively).

Measuring the Fair Value of Other Investments Using Net Asset Valuations

The table below shows the Company's portfolio of other investments measured using net asset valuations as a practical expedient:

At June 30, 2023	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period (Minimum Days)	Redemption Notice Period (Maximum Days)
Private credit funds	\$ 876,010	\$ 628,000	See below	See below	See below
Private equity funds	365,337	535,839	See below	See below	See below
Total other investments measured using net asset valuations	<u>\$ 1,241,347</u>	<u>\$ 1,163,839</u>			

At December 31, 2022	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period (Minimum Days)	Redemption Notice Period (Maximum Days)
Private credit funds	\$ 771,383	\$ 714,302	See below	See below	See below
Private equity funds	315,323	493,155	See below	See below	See below
Total other investments measured using net asset valuations	<u>\$ 1,086,706</u>	<u>\$ 1,207,457</u>			

Private Credit Funds

The Company's investments in private credit funds include limited partnership or similar interests that invest in certain private credit asset classes, including U.S. direct lending funds, secondaries, mezzanine investments, distressed securities and senior secured bank loan funds. The Company generally has no right to redeem its interest in any of these private credit funds in advance of dissolution of the applicable limited partnerships. Instead, distributions are received by the Company in connection with the liquidation or maturity of the underlying private credit assets of the fund. It is estimated that the majority of the underlying assets of the limited partnerships would liquidate over 5 to 10 years from inception of the limited partnership.

Private Equity Funds

The Company's investments in private equity funds include limited partnership or similar interests that invest in certain private equity asset classes including U.S. and global leveraged buyouts. The Company generally has no right to redeem its interest in any of these private equity funds in advance of dissolution of the applicable limited partnerships. Instead, distributions are received by the Company in connection with the

exit from the underlying private equity investments of the fund. It is estimated that the majority of the underlying assets of the limited partnerships would liquidate over 5 to 10 years from inception of the limited partnership.

Limited Partnerships Entities

The Company's fund investments, included within other investments, represent variable interests in limited partnerships entities with unaffiliated fund managers in the normal course of business. The Company determined that certain of these limited partnership interests represent investments in variable interest entities ("VIEs") and that it is not required to consolidate these investments because it is not the primary beneficiary of these VIEs. The Company's maximum exposure to loss with respect to these VIEs is limited to the carrying amounts reported in the Company's consolidated balance sheet and any unfunded commitment.

The following table summarizes the aggregate carrying amount of the unconsolidated fund investments in VIEs, as well as our maximum exposure to loss associated with these VIEs:

	Maximum Exposure to Loss		
	Carrying amount	Unfunded Commitments	Total
At June 30, 2023			
Other investments	\$ 1,078,812	\$ 1,092,334	\$ 2,171,146
At December 31, 2022			
Other investments	\$ 916,248	\$ 1,148,630	\$ 2,064,878

NOTE 5. REINSURANCE

The Company purchases reinsurance and other protection to manage its risk portfolio and to reduce its exposure to large losses. The Company currently has in place contracts that provide for recovery of a portion of certain claims and claim expenses, generally in excess of various retentions or on a proportional basis. In addition to loss recoveries, certain of the Company's ceded reinsurance contracts provide for payments of additional premiums, for reinstatement premiums and for lost no-claims bonuses, which are incurred when losses are ceded to the respective reinsurance contracts. The Company remains liable to the extent that any reinsurer fails to meet its obligations.

The following table sets forth the effect of reinsurance and retrocessional activity on premiums written and earned and on net claims and claim expenses incurred:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Premiums Written				
Direct	\$ 278,695	\$ 338,761	\$ 451,391	\$ 639,866
Assumed	2,372,926	2,125,878	4,990,491	4,767,737
Ceded	(455,818)	(601,023)	(982,376)	(1,378,770)
Net premiums written	<u>\$ 2,195,803</u>	<u>\$ 1,863,616</u>	<u>\$ 4,459,506</u>	<u>\$ 4,028,833</u>
Premiums Earned				
Direct	\$ 281,437	\$ 278,609	\$ 535,456	\$ 521,370
Assumed	1,903,299	1,610,214	3,746,968	3,300,482
Ceded	(399,474)	(432,440)	(816,612)	(879,044)
Net premiums earned	<u>\$ 1,785,262</u>	<u>\$ 1,456,383</u>	<u>\$ 3,465,812</u>	<u>\$ 2,942,808</u>
Claims and Claim Expenses				
Gross claims and claim expenses incurred	\$ 1,089,656	\$ 799,218	\$ 2,049,360	\$ 1,816,773
Claims and claim expenses recovered	(158,445)	(92,979)	(316,949)	(268,801)
Net claims and claim expenses incurred	<u>\$ 931,211</u>	<u>\$ 706,239</u>	<u>\$ 1,732,411</u>	<u>\$ 1,547,972</u>

In assessing an allowance for reinsurance assets, which includes premiums receivable and reinsurance recoverable, the Company considers historical information, financial strength of reinsurers, collateralization amounts, and counterparty credit ratings to determine the appropriateness of the allowance. In assessing future default for reinsurance assets, the Company evaluates the provision for current expected credit losses under the probability of default and loss given default method. The Company utilizes its internal capital and risk models, which use counterparty ratings from major rating agencies, and assesses the current market conditions for the likelihood of default. The Company updates its internal capital and risk models for counterparty credit ratings and current market conditions on a periodic basis. Historically, the Company has not experienced material credit losses from reinsurance assets.

Premiums receivable reflect premiums written based on contract and policy terms and include estimates based on information received from both insureds and ceding companies, supplemented by our own judgement, including our estimates of premiums that are written but not reported. Due to the nature of reinsurance, ceding companies routinely report and remit premiums to us subsequent to the contract coverage period, although the time lag involved in the process of reporting and collecting premiums is typically shorter than the lag in reporting losses.

At June 30, 2023, the Company's premiums receivable balance was \$6.5 billion (December 31, 2022 - \$5.1 billion). Of the Company's premiums receivable balance as of June 30, 2023, the majority are receivable from highly rated counterparties. The provision for current expected credit losses on the Company's premiums receivable was \$3.2 million at June 30, 2023 (December 31, 2022 - \$4.6 million). The following table provides a roll forward of the provision for current expected credit losses of the Company's premiums receivable:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 3,371	\$ 2,776	\$ 4,606	\$ 2,776
Provision for (release of) allowance	(220)	1,574	(1,455)	1,574
Ending balance	<u>\$ 3,151</u>	<u>\$ 4,350</u>	<u>\$ 3,151</u>	<u>\$ 4,350</u>

Reinsurance recoverable reflects amounts due from reinsurers based on the claim liabilities associated with the reinsurance policy. The Company accrues amounts that are due from reinsurers based on estimated ultimate losses applicable to the contracts.

At June 30, 2023, the Company's reinsurance recoverable balance was \$4.7 billion (December 31, 2022 - \$4.7 billion). Of the Company's reinsurance recoverable balance at June 30, 2023, 46.6% is fully collateralized by our reinsurers, 52.7% is recoverable from reinsurers rated A- or higher by major rating agencies and 0.7% is recoverable from reinsurers rated lower than A- by major rating agencies (December 31, 2022 - 47.2%, 52.0% and 0.8%, respectively). The reinsurers with the three largest balances accounted for 17.9%, 9.6% and 6.4%, respectively, of the Company's reinsurance recoverable balance at June 30, 2023 (December 31, 2022 - 20.8%, 7.0% and 5.4%, respectively). The provision for current expected credit losses was \$11.5 million at June 30, 2023 (December 31, 2022 - \$12.2 million). The three largest company-specific components of the provision for current expected credit losses represented 14.0%, 11.3% and 6.9%, respectively, of the Company's total provision for current expected credit losses at June 30, 2023 (December 31, 2022 - 14.3%, 9.1% and 8.0%, respectively). The following table provides a roll forward of the provision for current expected credit losses of the Company's reinsurance recoverable:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 11,504	\$ 8,344	\$ 12,169	\$ 8,344
Provision for (release of) allowance	(48)	661	(713)	661
Ending balance	<u>\$ 11,456</u>	<u>\$ 9,005</u>	<u>\$ 11,456</u>	<u>\$ 9,005</u>

NOTE 6. RESERVE FOR CLAIMS AND CLAIM EXPENSES

The Company believes the most significant accounting judgment made by management is its estimate of claims and claim expense reserves. Claims and claim expense reserves represent estimates, including actuarial and statistical projections at a given point in time, of the ultimate settlement and administration costs for unpaid claims and claim expenses arising from the insurance and reinsurance contracts the Company sells. The Company's reserve for claims and claim expenses are a combination of case reserves, additional case reserves ("ACR") and incurred but not reported losses and incurred but not enough reported losses (collectively referred to as "IBNR"). Case reserves are losses reported to the Company by insureds and ceding companies, but which have not yet been paid. If deemed necessary and in certain situations, the Company establishes ACR which represents the Company's estimate for claims related to specific contracts which the Company believes may not be adequately estimated by the client as of that date or within the IBNR. The Company establishes IBNR using actuarial techniques and expert judgement to represent the anticipated cost of claims which have not been reported to the Company yet, or where the Company anticipates increased reporting. The Company's reserving committee, which includes members of the Company's senior management, reviews, discusses, and assesses the reasonableness and adequacy of the reserving estimates included in our unaudited consolidated financial statements.

The following table summarizes the Company's reserve for claims and claim expenses by segment, allocated between case reserves, additional case reserves and IBNR:

<u>At June 30, 2023</u>	Case Reserves	Additional Case Reserves	IBNR	Total
Property	\$ 2,011,450	\$ 2,074,234	\$ 2,847,946	\$ 6,933,630
Casualty and Specialty	1,967,639	204,511	7,032,348	9,204,498
Total	<u>\$ 3,979,089</u>	<u>\$ 2,278,745</u>	<u>\$ 9,880,294</u>	<u>\$ 16,138,128</u>
<u>At December 31, 2022</u>				
Property	\$ 1,956,688	\$ 2,008,891	\$ 3,570,253	\$ 7,535,832
Casualty and Specialty	1,864,365	167,993	6,324,383	8,356,741
Total	<u>\$ 3,821,053</u>	<u>\$ 2,176,884</u>	<u>\$ 9,894,636</u>	<u>\$ 15,892,573</u>

Activity in the liability for unpaid claims and claim expenses is summarized as follows:

<u>Six months ended June 30,</u>	<u>2023</u>	<u>2022</u>
Reserve for claims and claim expenses, net of reinsurance recoverable, as of beginning of period	\$ 11,181,648	\$ 9,025,961
Net incurred related to:		
Current year	1,869,261	1,608,762
Prior years	(136,850)	(60,790)
Total net incurred	1,732,411	1,547,972
Net paid related to:		
Current year	92,909	41,124
Prior years	1,406,684	1,129,979
Total net paid	1,499,593	1,171,103
Foreign exchange ⁽¹⁾	34,311	(166,483)
Reserve for claims and claim expenses, net of reinsurance recoverable, as of end of period	11,448,777	9,236,347
Reinsurance recoverable as of end of period	4,689,351	4,206,459
Reserve for claims and claim expenses as of end of period	\$ 16,138,128	\$ 13,442,806

(1) Reflects the impact of the foreign exchange revaluation of the reserve for claims and claim expenses, net of reinsurance recoverable, denominated in non-U.S. dollars as at the balance sheet date.

Prior Year Development of the Reserve for Net Claims and Claim Expenses

The Company's estimates of claims and claim expense reserves are not precise in that, among other things, they are based on predictions of future developments and estimates of future trends and other variable factors. Some, but not all, of the Company's reserves are further subject to the uncertainty inherent in actuarial methodologies and estimates. Because a reserve estimate is simply an insurer's estimate at a point in time of its ultimate liability, and because there are numerous factors that affect reserves and claims payments that cannot be determined with certainty in advance, the Company's ultimate payments will vary, perhaps materially, from its estimates of reserves. If the Company determines in a subsequent period that adjustments to its previously established reserves are appropriate, such adjustments are recorded in the period in which they are identified. On a net basis, the Company's cumulative favorable or unfavorable development is generally reduced by offsetting changes in its reinsurance recoverable, as well as changes to loss related premiums such as reinstatement premiums and redeemable noncontrolling interest, all of which generally move in the opposite direction to changes in the Company's ultimate claims and claim expenses.

The following table details the Company's prior year net development by segment of its net claims and claim expenses:

<u>Six months ended June 30,</u>	<u>2023</u>	<u>2022</u>
	(Favorable) adverse development	(Favorable) adverse development
Property	\$ (113,332)	\$ (51,810)
Casualty and Specialty	(23,518)	(8,980)
Total net (favorable) adverse development of prior accident years net claims and claim expenses	\$ (136,850)	\$ (60,790)

Changes to prior year estimated net claims and claim expenses increased net income by \$136.9 million during the six months ended June 30, 2023 (2022 - decreased net loss by \$60.8 million), excluding the consideration of changes in reinstatement, adjustment or other premium changes, profit commissions, redeemable noncontrolling interests - DaVinci, Vermeer and Fontana and income tax.

Property Segment

The following tables detail the development of the Company's liability for net unpaid claims and claim expenses for its Property segment, allocated between large and small catastrophe net claims and claim expenses and attritional net claims and claim expenses, included in the other line item:

Six months ended June 30,	2023	
	(Favorable) adverse development	
Catastrophe net claims and claim expenses		
<i>Large catastrophe events</i>		
2022 Weather-Related Large Losses ⁽¹⁾	\$	25,994
2021 Weather-Related Large Losses ⁽²⁾		(31,000)
2020 Weather-Related Large Loss Events ⁽³⁾		(3,077)
2019 Large Loss Events ⁽⁴⁾		(22,636)
2018 Large Loss Events ⁽⁵⁾		(24,059)
2017 Large Loss Events ⁽⁶⁾		(18,382)
Other		(620)
<i>Total large catastrophe events</i>		(73,780)
<i>Small catastrophe events and attritional loss movements</i>		
Other small catastrophe events and attritional loss movements		(39,552)
<i>Total small catastrophe events and attritional loss movements</i>		(39,552)
Total net (favorable) adverse development of prior accident years net claims and claim expenses	\$	(113,332)

- (1) "2022 Weather-Related Large Losses" includes Hurricane Ian, the floods in Eastern Australia in February and March of 2022, Storm Eunice, the severe weather in France in May and June of 2022, Hurricane Fiona and the typhoons in Asia during the third quarter of 2022, Hurricane Nicole and Winter Storm Elliott during the fourth quarter of 2022, and loss estimates associated with certain aggregate loss contracts triggered during 2022 as a result of weather-related catastrophe events.
- (2) "2021 Weather-Related Large Losses" includes Winter Storm Uri, the European Floods, Hurricane Ida, the hail storm in Europe in late June 2021, the wildfires in California during the third quarter of 2021, the tornadoes in the Central and Midwest U.S. in December 2021, the Midwest Derecho in December 2021, and losses associated with aggregate loss contracts.
- (3) "2020 Weather-Related Large Loss Events" includes Hurricanes Laura, Sally, Isaias, Delta, Zeta and Eta, the California, Oregon and Washington wildfires, Typhoon Maysak, the August 2020 Derecho, and losses associated with aggregate loss contracts.
- (4) "2019 Large Loss Events" includes Hurricane Dorian and Typhoons Faxai and Hagibis and certain losses associated with aggregate loss contracts.
- (5) "2018 Large Loss Events" includes Typhoons Jebi, Mangkhut and Trami, Hurricane Florence, the wildfires in California during the third and fourth quarters of 2018, Hurricane Michael and certain losses associated with aggregate loss contracts.
- (6) "2017 Large Loss Events" includes Hurricanes Harvey, Irma and Maria, the Mexico City Earthquake, the wildfires in California during the fourth quarter of 2017 and certain losses associated with aggregate loss contracts.

The net favorable development of prior accident years net claims and claim expenses was driven by better than expected loss emergence.

The net favorable development on other small catastrophe events and attritional loss movements was related to lines of business where the Company principally estimates net claims and claim expenses using traditional actuarial methods.

<u>Six months ended June 30,</u>	<u>2022</u> (Favorable) adverse development
Catastrophe net claims and claim expenses	
<i>Large catastrophe events</i>	
2021 Weather-Related Large Losses	\$ 4,385
2020 Weather-Related Large Loss Events	(10,887)
2019 Large Loss Events	(25,821)
2018 Large Loss Events	(10,300)
2017 Large Loss Events	(22,143)
Other	(2,578)
<i>Total large catastrophe events</i>	<u>(67,344)</u>
<i>Small catastrophe events and attritional loss movements</i>	
Other small catastrophe events and attritional loss movements	15,534
<i>Total small catastrophe events and attritional loss movements</i>	<u>15,534</u>
Total net (favorable) adverse development of prior accident years net claims and claim expenses	<u>\$ (51,810)</u>

The net favorable development of prior accident years net claims and claim expenses was largely driven by better than expected loss emergence.

The net adverse development on other small catastrophe events and attritional loss movements was related to lines of business where the Company principally estimates net claims and claim expenses using traditional actuarial methods.

Casualty and Specialty Segment

The following table details the development of the Company's prior accident years net claims and claim expenses for its Casualty and Specialty segment:

<u>Six months ended June 30,</u>	<u>2023</u> (Favorable) adverse development	<u>2022</u> (Favorable) adverse development
Actuarial methods - actual reported claims less than expected claims	\$ (26,428)	\$ (27,315)
Actuarial assumption changes	2,910	18,335
Total net (favorable) adverse development of prior accident years net claims and claim expenses	<u>\$ (23,518)</u>	<u>\$ (8,980)</u>

The net favorable development of prior accident years net claims and claim expenses within the Company's Casualty and Specialty segment of \$23.5 million in the six months ended June 30, 2023, was due to reported losses generally coming in lower than expected on attritional net claims and claim expenses driven by favorable experience, principally within the Company's other specialty and credit lines of business.

The net favorable development of prior accident years net claims and claim expenses within the Company's Casualty and Specialty segment of \$9.0 million in the six months ended June 30, 2022 was due to reported losses generally coming in lower than expected on attritional net claims and claim expenses, principally within the Company's credit lines of business.

NOTE 7. DEBT AND CREDIT FACILITIES

There have been no material changes to the Company's debt obligations and credit facilities as described in its Form 10-K for the year ended December 31, 2022, except as described below or otherwise disclosed.

The agreements governing the Company's debt obligations and credit facilities contain certain customary representations, warranties and covenants. At June 30, 2023, the Company believes that it was in compliance with its debt covenants.

Debt Obligations

A summary of the Company's debt obligations on its consolidated balance sheets is set forth below:

	June 30, 2023		December 31, 2022	
	Fair value	Carrying value	Fair value	Carrying value
5.750% Senior Notes due 2033	\$ 736,995	\$ 740,620	\$ —	\$ —
3.600% Senior Notes due 2029	355,720	394,676	362,644	394,221
3.450% Senior Notes due 2027	280,005	298,022	280,506	297,775
3.700% Senior Notes due 2025	290,751	299,351	290,874	299,168
4.750% Senior Notes due 2025 (DaVinci) ⁽¹⁾	145,284	149,432	146,625	149,278
Total senior notes	1,808,755	1,882,101	1,080,649	1,140,442
Medici Revolving Credit Facility ⁽²⁾	—	—	30,000	30,000
Total debt	\$ 1,808,755	\$ 1,882,101	\$ 1,110,649	\$ 1,170,442

- (1) RenaissanceRe owns a noncontrolling economic interest in its joint venture DaVinci. Because RenaissanceRe controls a majority of DaVinci's issued voting shares, the consolidated financial statements of DaVinci are included in the consolidated financial statements of RenaissanceRe. However, RenaissanceRe does not guarantee or provide credit support for DaVinci and RenaissanceRe's financial exposure to DaVinci is limited to its investment in DaVinci's shares and counterparty credit risk arising from reinsurance transactions.
- (2) RenaissanceRe owns a noncontrolling economic interest in Medici. Because RenaissanceRe controls all of Medici's outstanding issued voting shares, the financial statements of Medici are included in RenaissanceRe's consolidated financial statements. However, RenaissanceRe does not guarantee or provide credit support for Medici, and RenaissanceRe's financial exposure to Medici is limited to its investment in Medici's shares and counterparty credit risk arising from reinsurance transactions.

5.750% Senior Notes due 2033

On June 5, 2023, the Company issued \$750.0 million of its 5.750% Senior Notes due June 5, 2033. The Company received net proceeds of approximately \$741.0 million from the offering of senior notes after deducting the underwriting discounts and estimated offering expenses payable by the Company. The Company intends to use the net proceeds from this offering to fund a portion of the cash consideration for the Validus Acquisition, to pay related costs and expenses, and for general corporate purposes. See "Note 15. Acquisition of Validus" for additional information regarding the Validus Acquisition. Subject to certain regulatory redemption requirements, if (i) the Validus Acquisition is not consummated on or before the specified mandatory redemption end date, or (ii) we notify the trustee that we will not pursue the consummation of the Validus Acquisition, we will be required to redeem the 5.750% Senior Notes due 2033 then outstanding at a redemption price equal to 101% of the principal amount of the notes to be redeemed plus accrued and unpaid interest to, but excluding, the special mandatory redemption date.

Credit Facilities

The outstanding amounts issued or drawn under each of the Company's significant credit facilities is set forth below:

At June 30, 2023	Issued or drawn
Revolving Credit Facility ⁽¹⁾	\$ —
Medici Revolving Credit Facility ⁽²⁾	—
Bilateral Letter of Credit Facilities	
Secured	395,583
Unsecured	497,308
Funds at Lloyd's Letter of Credit Facility	275,000
	<u>\$ 1,167,891</u>

(1) At June 30, 2023, no amounts were issued or drawn under this facility.

(2) RenaissanceRe owns a noncontrolling economic interest in Medici. Because RenaissanceRe controls all of Medici's outstanding issued voting shares, the financial statements of Medici are included in RenaissanceRe's consolidated financial statements. However, RenaissanceRe does not guarantee or provide credit support for Medici, and RenaissanceRe's financial exposure to Medici is limited to its investment in Medici's shares and counterparty credit risk arising from reinsurance transactions. At June 30, 2023, no amounts were issued or drawn under this facility.

Uncommitted, Secured Standby Letter of Credit Facility with Wells Fargo

On February 22, 2023, RenaissanceRe and certain of its subsidiaries and affiliates, including Renaissance Reinsurance, DaVinci Reinsurance, Renaissance Reinsurance U.S., RenaissanceRe Specialty U.S. and RREAG, entered into an amendment to its letter of credit facility with Wells Fargo Bank, National Association. The Amendment provides for, among other things, the option to request the issuance of up to \$150.0 million of secured letters of credit in the aggregate, the removal of an unused option to request unsecured letters of credit, and certain other modifications to the provisions that require collateral to be pledged in favor of Wells Fargo to secure the applicants' reimbursement obligations, including changes to the methodology for calculation of collateral values.

NOTE 8. NONCONTROLLING INTERESTS

A summary of the Company's redeemable noncontrolling interests on its consolidated balance sheets is set forth below:

	June 30, 2023	December 31, 2022
Redeemable noncontrolling interest - DaVinci	\$ 2,267,448	\$ 1,740,300
Redeemable noncontrolling interest - Medici	1,540,520	1,036,218
Redeemable noncontrolling interest - Vermeer	1,590,408	1,490,840
Redeemable noncontrolling interest - Fontana	277,886	268,031
Redeemable noncontrolling interests	<u>\$ 5,676,262</u>	<u>\$ 4,535,389</u>

A summary of the Company's redeemable noncontrolling interests on its consolidated statements of operations is set forth below:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Redeemable noncontrolling interest - DaVinci	\$ 59,527	\$ 58,822	\$ 225,609	\$ 33,499
Redeemable noncontrolling interest - Medici	62,190	(26,887)	107,259	(32,174)
Redeemable noncontrolling interest - Vermeer	52,163	22,937	99,568	41,635
Redeemable noncontrolling interest - Fontana	1,027	(5,541)	9,855	(5,541)
Net income (loss) attributable to redeemable noncontrolling interests	\$ 174,907	\$ 49,331	\$ 442,291	\$ 37,419

Redeemable Noncontrolling Interest – DaVinci

RenaissanceRe owns a noncontrolling economic interest in DaVinci; however, because RenaissanceRe controls a majority of DaVinci's outstanding voting rights, the Company consolidates DaVinci and all significant intercompany transactions have been eliminated. The portion of DaVinci's earnings owned by third parties is recorded in the consolidated statements of operations as net income (loss) attributable to redeemable noncontrolling interests. The Company's noncontrolling economic ownership in DaVinci was 26.3% at June 30, 2023 (December 31, 2022 - 30.9%).

DaVinci shareholders are party to a shareholders agreement which provides DaVinci shareholders, excluding RenaissanceRe, with certain redemption rights that enable each shareholder to notify DaVinci of such shareholder's desire for DaVinci to repurchase up to half of such shareholder's initial aggregate number of shares held, subject to certain limitations, such as limiting the aggregate of all share repurchase requests to 25% of DaVinci's capital in any given year and satisfying all applicable regulatory requirements. If total shareholder requests exceed 25% of DaVinci's capital, the number of shares repurchased will be reduced among the requesting shareholders pro-rata, based on the amounts desired to be repurchased. Shareholders desiring to have DaVinci repurchase their shares must notify DaVinci before March 1 of each year. The repurchase price will be based on GAAP book value as of the end of the year in which the shareholder notice is given, and the repurchase will be effective as of December 31 of that year. The repurchase price can be subject to a holdback and true-up for potential development on outstanding loss reserves. Similarly, when shares are issued by DaVinci and sold to DaVinci shareholders, the sale price is based on GAAP book value as of the end of the period preceding the sale and can be subject to a true-up for potential development on outstanding loss reserves.

2023

During the six months ended June 30, 2023, DaVinci completed an equity capital raise of \$250.0 million, comprised of \$102.2 million from third-party investors and \$147.8 million from RenaissanceRe. In addition, RenaissanceRe sold an aggregate of \$275.0 million of its shares in DaVinci to third-party investors and purchased an aggregate of \$77.5 million of shares from third-party investors. The Company's noncontrolling economic ownership in DaVinci subsequent to these transactions was 26.3%.

Refer to "Note 16. Subsequent Event" for additional information related to the Company's noncontrolling economic ownership in DaVinci subsequent to June 30, 2023.

The timing of cash flows associated with equity capital transactions can vary from one period to the next. During the six months ended June 30, 2023, RenaissanceRe received \$Nil from subscriptions of shares in DaVinci by third-party investors, and paid \$77.5 million as a result of redemptions of shares from third-party investors.

2022

During the six months ended June 30, 2022, DaVinci completed an equity capital raise of \$500.0 million, comprised of \$284.8 million from third-party investors and \$215.2 million from RenaissanceRe. In addition, RenaissanceRe sold an aggregate of \$102.9 million of its shares in DaVinci to third-party investors and

purchased an aggregate of \$161.6 million of shares from third-party investors. The Company's noncontrolling economic ownership in DaVinci subsequent to these transactions was 33.8%.

The Company expects its noncontrolling economic ownership in DaVinci to fluctuate over time.

The activity in redeemable noncontrolling interest – DaVinci is detailed in the table below:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 2,234,541	\$ 1,775,503	\$ 1,740,300	\$ 1,499,451
Redemption of shares from redeemable noncontrolling interests	(27,320)	(74,141)	(77,495)	(161,569)
Sale of shares to redeemable noncontrolling interests, net of adjustments	700	2,493	379,034	391,296
Net income (loss) attributable to redeemable noncontrolling interest	59,527	58,822	225,609	33,499
Ending balance	<u>\$ 2,267,448</u>	<u>\$ 1,762,677</u>	<u>\$ 2,267,448</u>	<u>\$ 1,762,677</u>

Redeemable Noncontrolling Interest - Medici

RenaissanceRe owns a noncontrolling economic interest in Medici; however, because RenaissanceRe controls all of Medici's issued voting shares, the Company consolidates Medici and all significant intercompany transactions have been eliminated. The portion of Medici's earnings owned by third parties is recorded in the consolidated statements of operations as net income (loss) attributable to redeemable noncontrolling interests. Any shareholder may redeem all or any portion of its shares as of the last day of any calendar month, upon at least 30 calendar days' prior irrevocable written notice to Medici.

2023

During the six months ended June 30, 2023, investors subscribed for \$439.7 million, including \$25.1 million from the Company, and redeemed \$17.6 million, of the participating, non-voting common shares of Medici. As a result of these net subscriptions, the Company's noncontrolling economic ownership in Medici was 11.1% at June 30, 2023.

The timing of cash flows associated with equity capital transactions can vary from one period to the next. During the six months ended June 30, 2023, RenaissanceRe received \$405.1 million from subscriptions of shares in Medici by third-party investors, and paid \$17.6 million as a result of redemptions of shares from third-party investors.

2022

During the six months ended June 30, 2022, third-party investors subscribed for \$325.0 million, and redeemed \$97.1 million, of the participating, non-voting common shares of Medici. As a result of these net subscriptions, the Company's noncontrolling economic ownership in Medici was 13.0% at June 30, 2022.

The Company expects its noncontrolling economic ownership in Medici to fluctuate over time.

The activity in redeemable noncontrolling interest – Medici is detailed in the table below:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 1,307,741	\$ 941,912	\$ 1,036,218	\$ 856,820
Redemption of shares from redeemable noncontrolling interests, net of adjustments	—	(20,204)	(17,648)	(97,112)
Sale of shares to redeemable noncontrolling interests	170,589	157,739	414,691	325,026
Net income (loss) attributable to redeemable noncontrolling interest	62,190	(26,887)	107,259	(32,174)
Ending balance	<u>\$ 1,540,520</u>	<u>\$ 1,052,560</u>	<u>\$ 1,540,520</u>	<u>\$ 1,052,560</u>

Redeemable Noncontrolling Interest – Vermeer

RenaissanceRe owns 100% of the voting non-participating shares of Vermeer, while the sole third-party investor, PFZW, owns 100% of the non-voting participating shares of Vermeer and retains all of the economic benefits. Vermeer is managed by RUM in return for a management fee. The Company has concluded that Vermeer is a VIE as it has voting rights that are not proportional to its participating rights, and the Company is the primary beneficiary of Vermeer. As a result, the Company consolidates Vermeer and all significant inter-company transactions have been eliminated. As PFZW owns all of the economics of Vermeer, all of Vermeer's earnings are allocated to PFZW in the consolidated statement of operations as net income (loss) attributable to redeemable noncontrolling interests. The Company has not provided any financial or other support to Vermeer that it was not contractually required to provide.

2023

During the six months ended June 30, 2023, there were no subscriptions for participating, non-voting common shares of Vermeer.

2022

During the six months ended June 30, 2022, PFZW subscribed for \$30.0 million of the participating, non-voting common shares of Vermeer.

The Company does not expect its noncontrolling economic ownership in Vermeer to fluctuate over time.

The activity in redeemable noncontrolling interest – Vermeer is detailed in the table below:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 1,538,245	\$ 1,246,480	\$ 1,490,840	\$ 1,197,782
Sale of shares to redeemable noncontrolling interest	—	—	—	30,000
Net income (loss) attributable to redeemable noncontrolling interest	52,163	22,937	99,568	41,635
Ending balance	<u>\$ 1,590,408</u>	<u>\$ 1,269,417</u>	<u>\$ 1,590,408</u>	<u>\$ 1,269,417</u>

Redeemable Noncontrolling Interest – Fontana

RenaissanceRe owns a noncontrolling economic interest in Fontana and controls a majority of Fontana's issued voting shares. The Company concluded that Fontana meets the definition of a VIE as the voting rights are not proportional with the obligations to absorb losses and rights to receive residual returns. The Company evaluated its relationship with Fontana and concluded it is the primary beneficiary of Fontana, as it has power over the activities that most significantly impact the economic performance of Fontana. As a result, the Company consolidates Fontana and all significant inter-company transactions have been eliminated. The portion of Fontana's earnings owned by third parties is recorded in the consolidated statements of operations as net income (loss) attributable to redeemable noncontrolling interests. The Company may be obligated to repurchase all or a portion of the shares held by shareholders of Fontana upon request, subject to certain restrictions. The Company has not provided any financial or other support to Fontana that it was not contractually required to provide.

2023

During the six months ended June 30, 2023, there were no subscriptions or redemptions of non-voting common shares of Fontana. The Company's noncontrolling economic ownership in Fontana was 31.6% at June 30, 2023.

2022

During the six months ended June 30, 2022, the Company launched Fontana with capital commitments of \$475.0 million, of which \$400.0 million was funded on April 1, 2022. Of this amount, \$273.7 million was funded by third-party investors. As a result of these subscriptions, the Company's noncontrolling economic ownership in Fontana was 31.6% at June 30, 2022.

The Company's investment in Fontana may fluctuate, perhaps materially, in future quarters.

The activity in redeemable noncontrolling interest – Fontana is detailed in the table below:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Beginning balance	\$ 276,859	\$ —	\$ 268,031	\$ —
Sale of shares to redeemable noncontrolling interest	—	273,684	—	273,684
Net income (loss) attributable to redeemable noncontrolling interest	1,027	(5,541)	9,855	(5,541)
Ending balance	<u>\$ 277,886</u>	<u>\$ 268,143</u>	<u>\$ 277,886</u>	<u>\$ 268,143</u>

NOTE 9. VARIABLE INTEREST ENTITIES

Upsilon RFO

RenaissanceRe indirectly owns a portion of the participating non-voting preference shares of Upsilon RFO and all of Upsilon RFO's voting Class A shares. The shareholders (other than the voting Class A shareholder) participate in all of the profits or losses of Upsilon RFO while their shares remain outstanding. The shareholders (other than the voting Class A shareholder) indemnify Upsilon RFO against losses relating to insurance risk, and therefore, these shares have been accounted for as prospective reinsurance under FASB ASC Topic *Financial Services - Insurance*.

Upsilon RFO is considered a VIE as it has insufficient equity capital to finance its activities without additional financial support. The Company is the primary beneficiary of Upsilon RFO as it has the power over the activities that most significantly impact the economic performance of Upsilon RFO and has the obligation to absorb expected losses and the right to receive expected benefits that could be significant to Upsilon RFO, in accordance with the accounting guidance. As a result, the Company consolidates Upsilon RFO and all significant inter-company transactions have been eliminated. Other than its equity investment in Upsilon

RFO, the Company has not provided financial or other support to Upsilon RFO that it was not contractually required to provide.

2023

During the six months ended June 30, 2023 and following the release of collateral that was previously held by cedants associated with prior years' contracts, Upsilon RFO returned \$489.6 million of capital to investors, including \$62.3 million to the Company. Also during the six months ended June 30, 2023, Upsilon RFO issued \$39.8 million of non-voting preference shares to existing investors, including \$10.2 million to the Company. At June 30, 2023, the Company's participation in the risks assumed by Upsilon RFO was 13.1%.

At June 30, 2023, the Company's consolidated balance sheet included total assets and total liabilities of Upsilon RFO of \$3.0 billion and \$3.0 billion, respectively (December 31, 2022 - \$3.7 billion and \$3.7 billion, respectively). Of the total assets and liabilities, a net amount of \$133.2 million (December 31, 2022 - \$165.3 million) is attributable to the Company, and \$0.9 billion (December 31, 2022 - \$1.2 billion) is attributable to third-party investors.

2022

During the six months ended June 30, 2022, \$89.0 million of Upsilon RFO non-voting preference shares were issued to existing investors, including \$10.0 million to the Company. In addition, during the six months ended June 30, 2022 and following the release of collateral that was previously held by cedants associated with prior years' contracts, Upsilon RFO returned \$188.1 million of capital to its investors. At June 30, 2022, the Company's participation in the risks assumed by Upsilon RFO was 12.7%.

Upsilon Diversified

RenaissanceRe Upsilon Diversified Fund ("Upsilon Diversified") is a segregated account of Upsilon Fund, and provides a fund structure through which investors can invest in reinsurance risk managed by the Company, which includes investments in Upsilon RFO and Medici. The Company concluded that Upsilon Diversified meets the definition of a VIE as the voting rights are not proportional with the obligations to absorb losses and rights to receive residual returns. The Company evaluated its relationship with Upsilon Diversified and concluded it is not the primary beneficiary of Upsilon Diversified, as it does not have the obligation to absorb expected losses and the right to receive expected benefits that could be significant to Upsilon Diversified, in accordance with the accounting guidance. As a result, the Company does not consolidate the financial position or results of operations of Upsilon Diversified. Upsilon Diversified meets the definition of an investment company in accordance with accounting guidance, and accordingly, is required to account for all of its investments, including its investments in Upsilon RFO and Medici, at fair value. The Company does not have, has not previously had, and does not expect to have, a material investment in Upsilon Diversified. In addition, the Company expects its absolute and relative ownership in Upsilon Diversified to remain minimal. Other than its current equity investment in Upsilon Diversified, the Company has not provided financial or other support to Upsilon Diversified that it was not contractually required to provide. The total assets of Upsilon Diversified principally reflect its investment in Upsilon RFO.

2023

During the six months ended June 30, 2023 and following the release of collateral from Upsilon RFO, Upsilon Diversified returned \$420.8 million of capital to investors, including \$0.7 million to the Company. Also during the six months ended June 30, 2023, Upsilon Diversified issued \$30.0 million of non-voting preference shares to existing investors, including \$0.1 million from the Company. The fair value of the Company's indirect equity ownership in Upsilon Diversified is included in investments in other ventures and was \$1.4 million at June 30, 2023 (December 31, 2022 - \$1.9 million). At June 30, 2023, the total assets and total liabilities of Upsilon Diversified were \$956.3 million and \$78.8 million, respectively (December 31, 2022 - \$1.2 billion and \$32.1 million, respectively). Upsilon Diversified's investment in Upsilon RFO was valued at \$952.4 million at June 30, 2023 (December 31, 2022 - \$1.2 billion).

2022

During the six months ended June 30, 2022 and following the release of collateral from Upsilon RFO, Upsilon Diversified returned \$143.5 million of capital to investors, including \$Nil to the Company. Also during the six months ended June 30, 2022, Upsilon Diversified issued \$82.5 million of non-voting preference shares to existing investors, including \$Nil to the Company.

NOC1

NOC1 is a segregated account of Upsilon Fund formed in the second quarter of 2023, that provides a fund structure through which investors can invest in a portfolio of insurance-linked securities, principally catastrophe bonds. The Company concluded that NOC1 meets the definition of a VIE as the voting rights are not proportional with the obligations to absorb losses and rights to receive residual returns. The Company evaluated its relationship with NOC1 and concluded it is not the primary beneficiary of NOC1, as it does not have the obligation to absorb expected losses and the right to receive expected benefits that could be significant to NOC1, in accordance with the accounting guidance. As a result, the Company does not consolidate the financial position or results of operations of NOC1. The Company does not have, and does not expect to have, a material investment in NOC 1 and expects its absolute and relative ownership in NOC1 to remain minimal. Other than its current equity investment in NOC1, the Company has not provided financial or other support to NOC1 that it was not contractually required to provide.

2023

During the six months ended June 30, 2023, NOC1 issued \$151.5 million of non-voting preference shares to existing investors, including \$1.5 million to the Company. The fair value of the Company's indirect equity ownership in NOC1 is included in investments in other ventures and was \$1.5 million at June 30, 2023. At June 30, 2023, the total assets and total liabilities of NOC1 were \$153.1 million and \$0.2 million, respectively.

Vermeer

Vermeer provides capacity focused on risk remote layers in the U.S. property catastrophe market. Refer to "Note 8. Noncontrolling Interests" for additional information regarding Vermeer.

At June 30, 2023, the Company's consolidated balance sheet included total assets and total liabilities of Vermeer of \$2.0 billion and \$388.7 million, respectively (December 31, 2022 - \$1.6 billion and \$144.9 million, respectively). In addition, the Company's consolidated balance sheet included redeemable noncontrolling interests associated with Vermeer of \$1.6 billion at June 30, 2023 (December 31, 2022 - \$1.5 billion).

Fontana

Fontana provides reinsurance capacity focused on business written within the Company's Casualty and Specialty segment. Refer to "Note 8. Noncontrolling Interests" for additional information regarding Fontana.

At June 30, 2023, the Company's consolidated balance sheet included total assets and total liabilities of Fontana of \$1.1 billion and \$733.8 million, respectively (December 31, 2022 - \$711.0 million and \$319.2 million, respectively). In addition, the Company's consolidated balance sheet included redeemable noncontrolling interests associated with Fontana of \$277.9 million at June 30, 2023 (December 31, 2022 - \$268.0 million).

Mona Lisa Re Ltd.

Mona Lisa Re provides reinsurance capacity to subsidiaries of RenaissanceRe through reinsurance agreements which are collateralized and funded by Mona Lisa Re through the issuance of one or more series of principal-at-risk variable rate notes to third-party investors.

Upon issuance of a series of notes by Mona Lisa Re, all of the proceeds from the issuance are deposited into collateral accounts, separated by series, to fund any potential obligation under the reinsurance agreements entered into with Renaissance Reinsurance and/or DaVinci Reinsurance underlying such series of notes. The outstanding principal amount of each series of notes generally will be returned to

holders of such notes upon the expiration of the risk period underlying such notes, unless an event occurs which causes a loss under the applicable series of notes, in which case the amount returned will be reduced by such noteholder's pro rata share of such loss, as specified in the applicable governing documents of such notes. In addition, holders of such notes are generally entitled to interest payments, payable quarterly, as determined by the applicable governing documents of each series of notes.

The Company concluded that Mona Lisa Re meets the definition of a VIE as it does not have sufficient equity capital to finance its activities. The Company evaluated its relationship with Mona Lisa Re and concluded it is not the primary beneficiary of Mona Lisa Re as it does not have the power over the activities that most significantly impact the economic performance of Mona Lisa Re, in accordance with the accounting guidance. As a result, the financial position and results of operations of Mona Lisa Re are not consolidated by the Company.

The only transactions related to Mona Lisa Re that are recorded in the Company's consolidated financial statements are the ceded reinsurance agreements entered into by Renaissance Reinsurance and DaVinci Reinsurance which are accounted for as prospective reinsurance under FASB ASC Topic *Financial Services - Insurance*, and the fair value of the principal-at-risk variable rate notes owned by the Company. Other than its investment in the principal-at-risk variable rate notes of Mona Lisa Re, the Company has not provided financial or other support to Mona Lisa Re that it was not contractually required to provide.

Renaissance Reinsurance and DaVinci Reinsurance have together entered into ceded reinsurance contracts with Mona Lisa Re with ceded premiums written of \$18.3 million and \$4.6 million, respectively, during the six months ended June 30, 2023 (2022 - \$25.1 million and \$6.2 million, respectively). In addition, Renaissance Reinsurance and DaVinci Reinsurance recognized ceded premiums earned related to the ceded reinsurance contracts with Mona Lisa Re of \$16.0 million and \$4.0 million, respectively, during the six months ended June 30, 2023 (2022 - \$19.5 million and \$4.8 million, respectively).

Effective January 10, 2023, Mona Lisa Re issued two series of principal-at-risk variable rate notes to investors for principal amounts of \$85.0 million and \$100.0 million. Also during the six months ended June 30, 2023, Mona Lisa Re redeemed its Series 2020-1 principal-at-risk variable rate notes at their par value of \$400.0 million, of which \$16.5 million was returned to Medici. At June 30, 2023, the total assets and total liabilities of Mona Lisa Re were \$463.5 million and \$463.5 million, respectively (December 31, 2022 - \$654.8 million and \$654.8 million, respectively).

The fair value of the Company's investment in the principal-at-risk variable rate notes of Mona Lisa Re is included in other investments. Net of third-party investors, the fair value of the Company's investment in Mona Lisa Re was \$3.3 million at June 30, 2023 (December 31, 2022 - \$5.7 million).

Fibonacci Re

Fibonacci Re provides collateralized capacity to Renaissance Reinsurance and its affiliates.

The Company concluded that Fibonacci Re meets the definition of a VIE as it does not have sufficient equity capital to finance its activities. The Company evaluated its relationship with Fibonacci Re and concluded it is not the primary beneficiary of Fibonacci Re as it does not have power over the activities that most significantly impact the economic performance of Fibonacci Re. As a result, the Company does not consolidate the financial position or results of operations of Fibonacci Re. The Company has not provided financial or other support to Fibonacci Re that it was not contractually required to provide.

Renaissance Reinsurance had no outstanding balances with Fibonacci Re as of June 30, 2023 and December 31, 2022, and there was no material impact on the Company's consolidated statements of operations for the six months ended June 30, 2023 and 2022.

Langhorne

The Company and Reinsurance Group of America formed Langhorne, an initiative to source third-party capital to support reinsurers targeting large in-force life and annuity blocks. In connection with Langhorne, as of June 30, 2023, the Company had invested \$0.1 million in Langhorne Partners (December 31, 2022 - \$0.1 million). Langhorne's capital commitment period expired at the end of December 2022 and the Langhorne entities are in the process of winding down. During the first quarter of 2023, the reinsurance entities of Langhorne Holdings were sold or dissolved, and all capital of Langhorne Holdings was

distributed, including \$1.5 million to the Company. Langhorne Partners is in the process of being dissolved, and distributed all remaining capital in July 2023, including \$0.8 million to the Company.

The Company concluded that Langhorne Holdings meets the definition of a VIE as the voting rights are not proportional with the obligations to absorb losses and rights to receive residual returns. The Company evaluated its relationship with Langhorne Holdings and concluded it is not the primary beneficiary of Langhorne Holdings, as it does not have power over the activities that most significantly impact the economic performance of Langhorne Holdings. As a result, the Company does not consolidate the financial position or results of operations of Langhorne Holdings. The Company separately evaluated Langhorne Partners and concluded that it was not a VIE. The Company accounts for its investments in Langhorne Holdings and Langhorne Partners under the equity method of accounting, one quarter in arrears.

The Company expects its absolute and relative ownership in Langhorne Partners to remain stable until the wind down concludes. Other than its current equity investment in Langhorne, the Company has not provided financial or other support to Langhorne that it was not contractually required to provide.

Shima Re

Shima Re was acquired on March 22, 2019 in connection with the acquisition of TMR. Shima Re is a Bermuda domiciled Class 3 insurer. Shima Re is registered as a segregated accounts company and provides third-party investors with access to reinsurance risk. The maximum remaining exposure of each segregated account is fully collateralized and is funded by cash or investments as prescribed by the participant thereto. Shima Re no longer writes new business and the last in-force contract written by Shima Re expired on December 31, 2019. The Company ceased providing management services to Shima Re effective December 1, 2020.

Shima Re is considered a VIE as it has voting rights that are not proportional to its participating rights. The Company evaluated its relationship with Shima Re and concluded it is not the primary beneficiary of any segregated account, as it does not have power over the activities that most significantly impact the economic performance of any segregated account. As a result, the Company does not consolidate the financial position or results of operations of Shima Re or its segregated accounts. The Company has not provided any financial or other support to any segregated account of Shima Re that it was not contractually required to provide.

Norwood Re

Until December 1, 2020, Norwood Re was managed by a subsidiary of RREAG that the Company acquired in the acquisition of TMR. Norwood Re is a Bermuda domiciled special purpose insurer registered as a segregated accounts company formed to provide solutions for reinsurance-linked asset investors. Norwood Re is wholly owned by the Norwood Re Purpose Trust. Risks assumed by the segregated accounts of Norwood Re were fronted by, or ceded from, only one cedant - RREAG and/or its insurance affiliates. The obligations of each segregated account are funded through the issuance of non-voting preference shares to third-party investors. The maximum exposure of each segregated account is fully collateralized and is funded by cash and term deposits or investments as prescribed by the participant thereto. Norwood Re no longer writes new business, and the last in-force contract written by Norwood Re expired on June 30, 2020. The Company ceased providing management services to Norwood Re effective December 1, 2020.

Norwood Re is considered a VIE as it has voting rights that are not proportional to its participating rights. The Company evaluated its relationship with Norwood Re and concluded it is not the primary beneficiary of Norwood Re and its segregated accounts, as it does not have power over the activities that most significantly impact the economic performance of Norwood Re and its segregated accounts. As a result, the Company does not consolidate the financial position or results of operations of Norwood Re and its segregated accounts. The Company has not provided any financial or other support to Norwood Re that it was not contractually required to provide.

Fund Investments

The Company's fund investments represent variable interests in limited partnerships entities with unaffiliated fund managers in the normal course of business. Refer to "Note 4. Fair Value Measurements" for additional information.

NOTE 10. SHAREHOLDERS' EQUITY

Dividends

The Board of Directors of RenaissanceRe declared quarterly dividends of \$0.38 per common share, payable to common shareholders of record on March 15, 2023 and June 15, 2023, and the Company paid the dividends on March 31, 2023 and June 30, 2023.

The Board of Directors approved the payment of quarterly dividends on each of the series of RenaissanceRe's preference shares to preference shareholders of record in the amounts and on the quarterly record dates and dividend payment dates set forth in the prospectus supplement and Certificate of Designation for the applicable series of preference shares, unless and until further action is taken by the Board of Directors. The dividend payment dates for the preference shares will be the first day of March, June, September and December of each year (or if this date is not a business day, on the business day immediately following this date). The record dates for the preference share dividends are one day prior to the dividend payment dates.

The amount of the dividend on the 5.750% Series F Preference Shares is an amount per share equal to 5.750% of the liquidation preference per annum (the equivalent to \$1,437.50 per 5.750% Series F Preference Share per annum, or \$359.375 per 5.750% Series F Preference Share per quarter, or \$1.4375 per Depositary Share per annum, or \$0.359375 per Depositary Share per quarter). The amount of the dividend on the 4.20% Series G Preference Shares is an amount per share equal to 4.20% of the liquidation preference per annum (the equivalent to \$1,050 per 4.20% Series G Preference Share per annum, or \$262.50 per 4.20% Series G Preference Share per quarter, or \$1.05 per Depositary Share per annum, or \$0.2625 per quarter).

During the six months ended June 30, 2023, the Company paid \$17.7 million in preference share dividends (2022 - \$17.7 million) and \$36.0 million in common share dividends (2022 - \$32.4 million).

Common Shares

On May 26, 2023, the Company completed an offering of 7,245,000 of its common shares at the public offering price of \$192.00 per share. The Company received net proceeds of approximately \$1,352 million from the equity offering after deducting the underwriting discounts and estimated offering expenses payable by the Company. The Company intends to use the net proceeds from this offering to fund a portion of the cash consideration for the Validus Acquisition, to pay related costs and expenses, and for general corporate purposes. See "Note 15. Acquisition of Validus" for additional information regarding the Validus Acquisition.

Share Repurchases

The Company's share repurchase program may be effected from time to time, depending on market conditions and other factors, through open market purchases and privately negotiated transactions. On August 2, 2022, RenaissanceRe's Board of Directors approved a renewal of its authorized share repurchase program for an aggregate amount of up to \$500.0 million. Unless terminated earlier by RenaissanceRe's Board of Directors, the program will expire when the Company has repurchased the full value of the common shares authorized. During the six months ended June 30, 2023, the Company did not repurchase common shares. At June 30, 2023, \$500.0 million remained available for repurchase under the share repurchase program. In the future, the Company may authorize additional purchase activities under the currently authorized share repurchase program, increase the amount authorized under the share repurchase program, or adopt additional trading plans. The Company's decision to repurchase common shares will depend on, among other matters, the market price of the common shares and the capital requirements of the Company.

NOTE 11. EARNINGS PER SHARE

The following table sets forth the computation of basic and diluted earnings per common share:

(common shares in thousands)	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Numerator:				
Net income (loss) available (attributable) to RenaissanceRe common shareholders	\$ 191,025	\$ (324,913)	\$ 755,087	\$ (719,326)
Amount allocated to participating common shareholders ⁽¹⁾	(2,889)	(272)	(11,650)	(507)
Net income (loss) allocated to RenaissanceRe common shareholders	<u>\$ 188,136</u>	<u>\$ (325,185)</u>	<u>\$ 743,437</u>	<u>\$ (719,833)</u>
Denominator:				
Denominator for basic income (loss) per RenaissanceRe common share - weighted average common shares ⁽²⁾	45,898	43,170	44,387	43,264
Per common share equivalents of non-vested shares ⁽²⁾	92	—	111	—
Denominator for diluted income (loss) per RenaissanceRe common share - adjusted weighted average common shares and assumed conversions ⁽²⁾	<u>45,990</u>	<u>43,170</u>	<u>44,498</u>	<u>43,264</u>
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – basic	\$ 4.10	\$ (7.53)	\$ 16.75	\$ (16.64)
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – diluted	\$ 4.09	\$ (7.53)	\$ 16.71	\$ (16.64)

(1) Represents earnings and dividends attributable to holders of unvested shares issued pursuant to the Company's stock compensation plans.

(2) In periods for which the Company has net loss allocated to RenaissanceRe common shareholders, the denominator used in calculating net loss attributable to RenaissanceRe common shareholders per common share - basic is also used in calculating net loss attributable to RenaissanceRe common shareholders per common share - diluted.

NOTE 12. SEGMENT REPORTING

The Company's reportable segments are defined as follows: (1) Property, which is comprised of catastrophe and other property (re)insurance written on behalf of the Company's consolidated operating subsidiaries, joint ventures and managed funds, and (2) Casualty and Specialty, which is comprised of casualty and specialty (re)insurance written on behalf of the Company's consolidated operating subsidiaries, joint ventures and managed funds. In addition to its reportable segments, the Company has an Other category, which primarily includes its investments unit, strategic investments, corporate expenses, capital servicing costs, noncontrolling interests and certain expenses related to acquisitions and dispositions.

The Company does not manage its assets by segment; accordingly, net investment income and total assets are not allocated to the segments.

A summary of the significant components of the Company's revenues and expenses by segment is as follows:

Three months ended June 30, 2023	Property	Casualty and Specialty	Other	Total
Gross premiums written	\$ 1,402,606	\$ 1,249,015	\$ —	\$ 2,651,621
Net premiums written	\$ 1,144,655	\$ 1,051,148	\$ —	\$ 2,195,803
Net premiums earned	\$ 758,686	\$ 1,026,576	\$ —	\$ 1,785,262
Net claims and claim expenses incurred	281,993	649,218	—	931,211
Acquisition expenses	140,606	281,939	—	422,545
Operational expenses	55,077	25,414	—	80,491
Underwriting income (loss)	\$ 281,010	\$ 70,005	\$ —	351,015
Net investment income			292,662	292,662
Net foreign exchange gains (losses)			(13,488)	(13,488)
Equity in earnings of other ventures			7,700	7,700
Other income (loss)			3,876	3,876
Net realized and unrealized gains (losses) on investments			(222,781)	(222,781)
Corporate expenses			(23,371)	(23,371)
Interest expense			(14,895)	(14,895)
Income (loss) before taxes and redeemable noncontrolling interests				380,718
Income tax benefit (expense)			(5,942)	(5,942)
Net (income) loss attributable to redeemable noncontrolling interests			(174,907)	(174,907)
Dividends on preference shares			(8,844)	(8,844)
Net income (loss) available (attributable) to RenaissanceRe common shareholders				\$ 191,025
Net claims and claim expenses incurred – current accident year	\$ 313,632	\$ 649,677	\$ —	\$ 963,309
Net claims and claim expenses incurred – prior accident years	(31,639)	(459)	—	(32,098)
Net claims and claim expenses incurred – total	\$ 281,993	\$ 649,218	\$ —	\$ 931,211
Net claims and claim expense ratio – current accident year	41.3 %	63.3 %		54.0 %
Net claims and claim expense ratio – prior accident years	(4.1)%	(0.1)%		(1.8)%
Net claims and claim expense ratio – calendar year	37.2 %	63.2 %		52.2 %
Underwriting expense ratio	25.8 %	30.0 %		28.1 %
Combined ratio	63.0 %	93.2 %		80.3 %

Six months ended June 30, 2023	Property	Casualty and Specialty	Other	Total
Gross premiums written	\$ 2,706,805	\$ 2,735,077	\$ —	\$ 5,441,882
Net premiums written	\$ 2,164,484	\$ 2,295,022	\$ —	\$ 4,459,506
Net premiums earned	\$ 1,446,106	\$ 2,019,706	\$ —	\$ 3,465,812
Net claims and claim expenses incurred	469,602	1,262,809	—	1,732,411
Acquisition expenses	285,925	568,877	—	854,802
Operational expenses	110,890	47,075	—	157,965
Underwriting income (loss)	\$ 579,689	\$ 140,945	\$ —	720,634
Net investment income			547,040	547,040
Net foreign exchange gains (losses)			(27,991)	(27,991)
Equity in earnings of other ventures			17,230	17,230
Other income (loss)			(430)	(430)
Net realized and unrealized gains (losses) on investments			56,670	56,670
Corporate expenses			(36,214)	(36,214)
Interest expense			(27,029)	(27,029)
Income (loss) before taxes and redeemable noncontrolling interests				1,249,910
Income tax benefit (expense)			(34,844)	(34,844)
Net (income) loss attributable to redeemable noncontrolling interests			(442,291)	(442,291)
Dividends on preference shares			(17,688)	(17,688)
Net income (loss) available (attributable) to RenaissanceRe common shareholders				\$ 755,087
Net claims and claim expenses incurred – current accident year	\$ 582,934	\$ 1,286,327	\$ —	\$ 1,869,261
Net claims and claim expenses incurred – prior accident years	(113,332)	(23,518)	—	(136,850)
Net claims and claim expenses incurred – total	\$ 469,602	\$ 1,262,809	\$ —	\$ 1,732,411
Net claims and claim expense ratio – current accident year	40.3 %	63.7 %		53.9 %
Net claims and claim expense ratio – prior accident years	(7.8)%	(1.2)%		(3.9)%
Net claims and claim expense ratio – calendar year	32.5 %	62.5 %		50.0 %
Underwriting expense ratio	27.4 %	30.5 %		29.2 %
Combined ratio	59.9 %	93.0 %		79.2 %

Three months ended June 30, 2022	Property	Casualty and Specialty	Other	Total
Gross premiums written	\$ 1,218,321	\$ 1,246,318	\$ —	\$ 2,464,639
Net premiums written	\$ 887,975	\$ 975,641	\$ —	\$ 1,863,616
Net premiums earned	\$ 623,581	\$ 832,802	\$ —	\$ 1,456,383
Net claims and claim expenses incurred	171,924	534,315	—	706,239
Acquisition expenses	137,567	223,671	—	361,238
Operational expenses	49,627	22,893	—	72,520
Underwriting income (loss)	\$ 264,463	\$ 51,923	\$ —	316,386
Net investment income			107,211	107,211
Net foreign exchange gains (losses)			(50,821)	(50,821)
Equity in earnings of other ventures			7,383	7,383
Other income (loss)			923	923
Net realized and unrealized gains (losses) on investments			(654,107)	(654,107)
Corporate expenses			(12,352)	(12,352)
Interest expense			(11,895)	(11,895)
Income (loss) before taxes and redeemable noncontrolling interests				(297,272)
Income tax benefit (expense)			30,534	30,534
Net (income) loss attributable to redeemable noncontrolling interests			(49,331)	(49,331)
Dividends on preference shares			(8,844)	(8,844)
Net income (loss) available (attributable) to RenaissanceRe common shareholders				\$ (324,913)
Net claims and claim expenses incurred – current accident year	\$ 206,976	\$ 542,220	\$ —	\$ 749,196
Net claims and claim expenses incurred – prior accident years	(35,052)	(7,905)	—	(42,957)
Net claims and claim expenses incurred – total	\$ 171,924	\$ 534,315	\$ —	\$ 706,239
Net claims and claim expense ratio – current accident year	33.2 %	65.1 %		51.4 %
Net claims and claim expense ratio – prior accident years	(5.6)%	(0.9)%		(2.9)%
Net claims and claim expense ratio – calendar year	27.6 %	64.2 %		48.5 %
Underwriting expense ratio	30.0 %	29.6 %		29.8 %
Combined ratio	57.6 %	93.8 %		78.3 %

<u>Six months ended June 30, 2022</u>	<u>Property</u>	<u>Casualty and Specialty</u>	<u>Other</u>	<u>Total</u>
Gross premiums written	\$ 2,561,829	\$ 2,845,774	\$ —	\$ 5,407,603
Net premiums written	\$ 1,778,141	\$ 2,250,692	\$ —	\$ 4,028,833
Net premiums earned	\$ 1,242,172	\$ 1,700,636	\$ —	\$ 2,942,808
Net claims and claim expenses incurred	431,685	1,116,287	—	1,547,972
Acquisition expenses	264,663	473,082	—	737,745
Operational expenses	96,559	43,868	—	140,427
Underwriting income (loss)	\$ 449,265	\$ 67,399	\$ —	516,664
Net investment income			190,902	190,902
Net foreign exchange gains (losses)			(66,307)	(66,307)
Equity in earnings of other ventures			993	993
Other income (loss)			2,116	2,116
Net realized and unrealized gains (losses) on investments			(1,327,124)	(1,327,124)
Corporate expenses			(24,854)	(24,854)
Interest expense			(23,850)	(23,850)
Income (loss) before taxes and redeemable noncontrolling interests				(731,460)
Income tax benefit (expense)			67,241	67,241
Net (income) loss attributable to redeemable noncontrolling interests			(37,419)	(37,419)
Dividends on preference shares			(17,688)	(17,688)
Net income (loss) available (attributable) to RenaissanceRe common shareholders				\$ (719,326)
Net claims and claim expenses incurred – current accident year	\$ 483,495	\$ 1,125,267	\$ —	\$ 1,608,762
Net claims and claim expenses incurred – prior accident years	(51,810)	(8,980)	—	(60,790)
Net claims and claim expenses incurred – total	\$ 431,685	\$ 1,116,287	\$ —	\$ 1,547,972
Net claims and claim expense ratio – current accident year	38.9 %	66.2 %		54.7 %
Net claims and claim expense ratio – prior accident years	(4.1)%	(0.6)%		(2.1)%
Net claims and claim expense ratio – calendar year	34.8 %	65.6 %		52.6 %
Underwriting expense ratio	29.0 %	30.4 %		29.8 %
Combined ratio	63.8 %	96.0 %		82.4 %

NOTE 13. DERIVATIVE INSTRUMENTS

From time to time, the Company may enter into derivative instruments such as futures, options, swaps, forward contracts and other derivative contracts primarily to manage its foreign currency exposure, obtain exposure to a particular financial market, for yield enhancement, or for trading and to assume risk. The Company's derivative instruments can be exchange traded or over-the-counter, with over-the-counter derivatives generally traded under International Swaps and Derivatives Association master agreements, which establish the terms of the transactions entered into with the Company's derivative counterparties. In the event a party becomes insolvent or otherwise defaults on its obligations, a master agreement generally permits the non-defaulting party to accelerate and terminate all outstanding transactions and net the transactions' marked-to-market values so that a single sum in a single currency will be owed by, or owed to, the non-defaulting party. Effectively, this contractual close-out netting reduces credit exposure from gross to net exposure. Where the Company has entered into master netting agreements with counterparties, or the Company has the legal and contractual right to offset positions, the derivative positions are generally netted by counterparty and are reported accordingly in other assets and other liabilities.

The Company is not aware of the existence of any credit-risk related contingent features that it believes would be triggered in its derivative instruments that are in a net liability position at June 30, 2023.

The tables below show the gross and net amounts of recognized derivative assets and liabilities at fair value, including the location on the consolidated balance sheets of the Company's principal derivative instruments:

	Derivative Assets					
	Gross Amounts of Recognized Assets	Gross Amounts Offset in the Balance Sheet	Net Amounts of Assets Presented in the Balance Sheet	Balance Sheet Location	Collateral Received	Net Amount
At June 30, 2023						
Derivative instruments not designated as hedges						
Interest rate futures	\$ 370	\$ —	\$ 370	Other assets	\$ —	\$ 370
Foreign currency forward contracts	24,119	—	24,119	Other assets	—	24,119
Foreign currency forward contracts	78	—	78	Other assets	—	78
Credit default swaps	121	—	121	Other assets	—	121
Total derivative instruments not designated as hedges	24,688	—	24,688		—	24,688
Derivative instruments designated as hedges						
Foreign currency forward contracts	619	—	619	Other assets	—	619
Total	\$ 25,307	\$ —	\$ 25,307		\$ —	\$ 25,307

	Derivative Liabilities					
	Gross Amounts of Recognized Liabilities	Gross Amounts Offset in the Balance Sheet	Net Amounts of Liabilities Presented in the Balance Sheet	Balance Sheet Location	Collateral Pledged	Net Amount
At June 30, 2023						
Derivative instruments not designated as hedges						
Interest rate futures	\$ 2,113	\$ —	\$ 2,113	Other liabilities	\$ 2,045	\$ 68
Foreign currency forward contracts	4,027	—	4,027	Other liabilities	—	4,027
Foreign currency forward contracts	2,998	—	2,998	Other liabilities	—	2,998
Credit default swaps	5,851	—	5,851	Other liabilities	5,851	—
Total derivative instruments not designated as hedges	14,989	—	14,989		7,896	7,093
Total	\$ 14,989	\$ —	\$ 14,989		\$ 7,896	\$ 7,093

- (1) Contracts used to manage foreign currency risks in underwriting and non-investment operations.
- (2) Contracts used to manage foreign currency risks in investment operations.
- (3) Contracts designated as hedges of net investments in a foreign operation.

	Derivative Assets					
	Gross Amounts of Recognized Assets	Gross Amounts Offset in the Balance Sheet	Net Amounts of Assets Presented in the Balance Sheet	Balance Sheet Location	Collateral Received	Net Amount
At December 31, 2022						
Derivative instruments not designated as hedges						
Interest rate futures	\$ 387	\$ —	\$ 387	Other assets	\$ —	\$ 387
(1) Foreign currency forward contracts	31,755	—	31,755	Other assets	—	31,755
(2) Foreign currency forward contracts	11,866	—	11,866	Other assets	—	11,866
Credit default swaps	413	—	413	Other assets	—	413
Total derivative instruments not designated as hedges	44,421	—	44,421		—	44,421
Total	\$ 44,421	\$ —	\$ 44,421		\$ —	\$ 44,421

	Derivative Liabilities					
	Gross Amounts of Recognized Liabilities	Gross Amounts Offset in the Balance Sheet	Net Amounts of Liabilities Presented in the Balance Sheet	Balance Sheet Location	Collateral Pledged	Net Amount
At December 31, 2022						
Derivative instruments not designated as hedges						
Interest rate futures	\$ 1,685	\$ —	\$ 1,685	Other liabilities	\$ 209	\$ 1,476
(1) Foreign currency forward contracts	1,160	—	1,160	Other liabilities	—	1,160
(2) Foreign currency forward contracts	2,165	—	2,165	Other liabilities	—	2,165
Credit default swaps	1,055	—	1,055	Other liabilities	100	955
Equity futures	323	—	323	Other liabilities	—	323
Total derivative instruments not designated as hedges	6,388	—	6,388		309	6,079
Derivative instruments designated as hedges						
(3) Foreign currency forward contracts	1,193	—	1,193	Other liabilities	—	1,193
Total	\$ 7,581	\$ —	\$ 7,581		\$ 309	\$ 7,272

- (1) Contracts used to manage foreign currency risks in underwriting and non-investment operations.
- (2) Contracts used to manage foreign currency risks in investment operations.
- (3) Contracts designated as hedges of net investments in a foreign operation.

The location and amount of the gain (loss) recognized in the Company's consolidated statements of operations related to its principal derivative instruments are shown in the following table:

	Location of gain (loss) recognized on derivatives	Amount of gain (loss) recognized on derivatives	
		2023	2022
Three months ended June 30,			
Derivative instruments not designated as hedges			
Interest rate futures ⁽¹⁾	Net realized and unrealized gains (losses) on investments	\$ (47,030)	\$ (14,699)
Foreign currency forward contracts ⁽²⁾	Net foreign exchange gains (losses)	4,900	(51,834)
Foreign currency forward contracts ⁽³⁾	Net foreign exchange gains (losses)	(11,111)	10,062
Foreign currency option contracts	Net foreign exchange gains (losses)	—	(225)
Credit default swaps ⁽¹⁾	Net realized and unrealized gains (losses) on investments	(17,460)	(2,337)
Equity futures ⁽⁴⁾	Net realized and unrealized gains (losses) on investments	(561)	(49,042)
Total derivative instruments not designated as hedges		(71,262)	(108,075)
Derivative instruments designated as hedges			
Foreign currency forward contracts ⁽⁵⁾	Accumulated other comprehensive income (loss)	591	7,321
Total		\$ (70,671)	\$ (100,754)

	Location of gain (loss) recognized on derivatives	Amount of gain (loss) recognized on derivatives	
		2023	2022
Six months ended June 30,			
Derivative instruments not designated as hedges			
Interest rate futures ⁽¹⁾	Net realized and unrealized gains (losses) on investments	\$ (21,547)	\$ (43,486)
Foreign currency forward contracts ⁽²⁾	Net foreign exchange gains (losses)	9,645	(72,757)
Foreign currency forward contracts ⁽³⁾	Net foreign exchange gains (losses)	(14,791)	8,171
Foreign currency option contracts	Net foreign exchange gains (losses)	—	(444)
Credit default swaps ⁽¹⁾	Net realized and unrealized gains (losses) on investments	(29,414)	(6,474)
Equity futures ⁽⁴⁾	Net realized and unrealized gains (losses) on investments	(1,928)	(56,406)
Total derivative instruments not designated as hedges		(58,035)	(171,396)
Derivative instruments designated as hedges			
Foreign currency forward contracts ⁽⁵⁾	Accumulated other comprehensive income (loss)	1,539	4,294
Total		\$ (56,496)	\$ (167,102)

- (1) Fixed income related derivatives included in net realized and unrealized gains (losses) on investment-related derivatives. See "Note 3. Investments" for additional information.
- (2) Contracts used to manage foreign currency risks in underwriting and non-investment operations.
- (3) Contracts used to manage foreign currency risks in investment operations.
- (4) Equity related derivatives included in net realized and unrealized gains (losses) on investment-related derivatives. See "Note 3. Investments" for additional information.
- (5) Contracts designated as hedges of net investments in a foreign operation.

Derivative Instruments Not Designated as Hedges

Interest Rate Derivatives

The Company uses interest rate futures and swaps within its portfolio of fixed maturity investments to manage its exposure to interest rate risk, which may result in increasing or decreasing its exposure to this risk.

Interest Rate Futures

The fair value of interest rate futures is determined using exchange traded prices. At June 30, 2023, the Company had \$2.6 billion of notional long positions and \$0.7 billion of notional short positions of primarily U.S. treasury and Japanese Yen futures contracts (December 31, 2022 - \$2.4 billion and \$0.5 billion, respectively, primarily of U.S. treasury futures contracts).

Foreign Currency Derivatives

The Company's functional currency is the U.S. dollar. The Company writes a portion of its business in currencies other than U.S. dollars and may, from time to time, experience foreign exchange gains and losses in the Company's consolidated financial statements. The impact of changes in exchange rates on the Company's assets and liabilities denominated in currencies other than the U.S. dollar, excluding non-monetary assets and liabilities, are recognized in the Company's consolidated statements of operations.

Underwriting and Non-investments Operations Related Foreign Currency Contracts

The Company's foreign currency policy with regard to its underwriting operations is generally to enter into foreign currency forward and option contracts for notional values that approximate the foreign currency liabilities, including claims and claim expense reserves and reinsurance balances payable, net of any cash, investments and receivables held in the respective foreign currency. The Company's use of foreign currency forward and option contracts is intended to minimize the effect of fluctuating foreign currencies on the value of non-U.S. dollar denominated assets and liabilities associated with its underwriting operations. The Company may determine not to match a portion of its projected underwriting related assets or liabilities with underlying foreign currency exposure with investments in the same currencies, which would increase its exposure to foreign currency fluctuations and potentially increase the impact and volatility of foreign exchange gains and losses on its results of operations. The fair value of the Company's underwriting operations related foreign currency contracts is determined using indicative pricing obtained from counterparties or broker quotes. At June 30, 2023, the Company had outstanding underwriting related foreign currency contracts of \$845.2 million in notional long positions and \$183.2 million in notional short positions, denominated in U.S. dollars (December 31, 2022 - \$861.7 million and \$172.4 million, respectively).

Investment Portfolio Related Foreign Currency Forward Contracts

The Company's investment operations are exposed to currency fluctuations through its investments in non-U.S. dollar fixed maturity investments, short term investments and other investments. From time to time, the Company may employ foreign currency forward contracts in its investment portfolio to either assume foreign currency risk or to economically hedge its exposure to currency fluctuations from these investments. The fair value of the Company's investment portfolio related foreign currency forward contracts is determined using an interpolated rate based on closing forward market rates. At June 30, 2023, the Company had outstanding investment portfolio related foreign currency contracts of \$383.2 million in notional long positions and \$98.7 million in notional short positions, denominated in U.S. dollars (December 31, 2022 - \$225.6 million and \$86.3 million, respectively).

Credit Derivatives

The Company's exposure to credit risk is primarily due to its fixed maturity investments, short term investments, premiums receivable and reinsurance recoverable. From time to time, the Company may purchase credit derivatives to manage its exposures in the insurance industry, and to assist in managing the credit risk associated with ceded reinsurance. The Company also employs credit derivatives in its investment portfolio to either assume credit risk or manage its credit exposure.

Credit Default Swaps

The fair value of the Company's credit default swaps is determined using industry valuation models, broker bid indications or internal pricing valuation techniques. The fair value of these credit default swaps can change based on a variety of factors including changes in credit spreads, default rates and recovery rates, the correlation of credit risk between the referenced credit and the counterparty, and market rate inputs such as interest rates. At June 30, 2023, the Company had outstanding credit default swaps of \$1.0 billion in notional positions to hedge credit risk and \$14.5 million in notional positions to assume credit risk, denominated in U.S. dollars (December 31, 2022 - \$953.4 million and \$13.1 million, respectively).

Equity Derivatives

Equity Futures

From time to time, the Company uses equity derivatives in its investment portfolio to either assume equity risk or hedge its equity exposure. The fair value of the Company's equity futures is determined using market-based prices from pricing vendors. At June 30, 2023, the Company had no notional positions of equity futures, denominated in U.S. dollars (December 31, 2022 - \$116.0 million notional long position).

Derivative Instruments Designated as Hedges of Net Investments in Foreign Operations

Foreign Currency Derivatives

Hedges of Net Investments in Foreign Operations

One of the Company's subsidiaries currently uses a non-U.S. dollar functional currency. The Company, from time to time, enters into foreign exchange forwards to hedge non-U.S. dollar functional currencies, on an after-tax basis, from changes in the exchange rate between the U.S. dollar and these currencies. As of June 30, 2023 and 2022, this included the Australian dollar net investment in a foreign operation. These foreign exchange forward contracts were formally designated as hedges of its investment in subsidiaries with non-U.S. dollar functional currencies and there was no ineffectiveness in these transactions.

The table below provides a summary of derivative instruments designated as hedges of net investments in a foreign operation, including the weighted average U.S. dollar equivalent of foreign denominated net (liabilities) assets that were hedged and the resulting derivative gains (losses) that are recorded in foreign currency translation adjustments, net of tax, within accumulated other comprehensive income (loss) on the Company's consolidated statements of changes in shareholders' equity:

	Three months ended		Six months ended	
	June 30, 2023	June 30, 2022	June 30, 2023	June 30, 2022
Weighted average of U.S. dollar equivalent of foreign denominated net assets (liabilities)	\$ 59,020	\$ 79,933	\$ 59,348	\$ 83,769
Derivative gains (losses) ⁽¹⁾	\$ 591	\$ 7,321	\$ 1,539	\$ 4,294

(1) Derivative gains (losses) from derivative instruments designated as hedges of the net investment in a foreign operation are recorded in foreign currency translation adjustments, net of tax, within accumulated other comprehensive income (loss) on the Company's consolidated statements of changes in shareholders' equity.

NOTE 14. COMMITMENTS, CONTINGENCIES AND OTHER ITEMS

There are no material changes from the commitments, contingencies and other items previously disclosed in the Company's Form 10-K for the year ended December 31, 2022.

Legal Proceedings

The Company and its subsidiaries are subject to lawsuits and regulatory actions in the normal course of business that do not arise from or directly relate to claims on reinsurance treaties or contracts or direct surplus lines insurance policies. In the Company's industry, business litigation may involve allegations of underwriting or claims-handling errors or misconduct, disputes relating to the scope of, or compliance with, the terms of delegated underwriting agreements, employment claims, regulatory actions or disputes arising from the Company's business ventures. The Company's operating subsidiaries are subject to claims litigation involving, among other things, disputed interpretations of policy coverages. Generally, the Company's direct surplus lines insurance operations are subject to greater frequency and diversity of claims and claims-related litigation than its reinsurance operations and, in some jurisdictions, may be subject to direct actions by allegedly injured persons or entities seeking damages from policyholders. These lawsuits, involving or arising out of claims on policies issued by the Company's subsidiaries which are typical to the insurance industry in general and in the normal course of business, are considered in its loss and loss expense reserves. In addition, the Company may from time to time engage in litigation or arbitration related to its claims for payment in respect of ceded reinsurance, including disputes that challenge the Company's ability to enforce its underwriting intent. Such matters could result, directly or indirectly, in providers of protection not meeting their obligations to the Company or not doing so on a timely basis. The Company may also be subject to other disputes from time to time, relating to operational or other matters distinct from insurance or reinsurance claims. Any litigation or arbitration, or regulatory process contains an element of uncertainty, and the value of an exposure or a gain contingency related to a dispute is difficult to estimate. The Company believes that no individual litigation or arbitration to which it is presently a party is likely to have a material adverse effect on its financial condition, business or operations.

Validus Acquisition

See "Note 15. Acquisition of Validus" for information related to the obligations of the Company with respect to the Validus Acquisition.

NOTE 15. ACQUISITION OF VALIDUS

On May 22, 2023, RenaissanceRe entered into a Stock Purchase Agreement (the "Stock Purchase Agreement") with American International Group, Inc., a Delaware corporation and NYSE-listed company (together with its affiliates and subsidiaries, "AIG") pursuant to which, upon the terms and subject to the conditions thereof, RenaissanceRe agreed to, or to cause one of its subsidiaries to, purchase, acquire and accept from certain subsidiaries of AIG, all of their right, title and interest in the shares of certain direct and indirect subsidiaries of AIG, including Validus Holdings, Ltd. ("Validus Holdings"), and Validus Specialty, LLC ("Validus Specialty"). Substantially all of the assets of Validus Holdings is comprised of its equity interest in its wholly-owned subsidiary, Validus Reinsurance, Ltd. ("Validus Re"). In the Stock Purchase Agreement, the Company also agreed to acquire the renewal rights, records and customer relationships of Talbot Underwriting Ltd., an affiliate of AIG ("Talbot"), a specialty (re)insurance group operating within the Lloyd's market. The acquisitions under the Stock Purchase Agreement, together with the other transactions contemplated in the Stock Purchase Agreement, are referred to herein as the "Validus Acquisition" and Validus Holdings, Validus Specialty, and their respective subsidiaries (including Validus Re) collectively are referred to herein as "Validus." The Validus Acquisition, which is currently expected to close during the fourth quarter of 2023, is subject to customary closing conditions, including the receipt of required regulatory approvals.

In connection with the Validus Acquisition, the Company will pay to AIG aggregate consideration of approximately \$2.985 billion, subject to adjustment, consisting of the following: (i) cash consideration of approximately \$2.735 billion; and (ii) a number of our common shares with a value of approximately \$250.0 million, which common shares will be valued at \$189.03 per share (the "Base Common Share Consideration"). The Company has agreed to enter into a registration rights agreement with AIG in respect

of the Base Common Share Consideration prior to the completion of the Validus Acquisition. AIG also has the option to make a substantial investment into the Company's Capital Partners vehicles.

As set forth in the Stock Purchase Agreement, AIG is also entitled to cause certain Validus entities to be acquired by the Company to pay, prior to the completion of the Validus Acquisition, to AIG entities not being acquired by the Company, one or more dividends in an aggregate amount equal to the estimated excess tangible book value of all acquired entities above \$2.1 billion. The amount of dividend is subject to change based on changes in tangible book value as of the date of the dividend. However, if such dividend fails to receive necessary regulatory approvals to be consummated, AIG will cause such Validus entities to maximize the amount of the estimated excess tangible book value of all acquired entities that can be paid by such dividend, and any remaining amount will be retained by the Validus entities and, following the closing, will be paid to AIG in one or more installments upon receipt of requisite regulatory approvals. The Stock Purchase Agreement also includes a reserve development arrangement on net reserves acquired at closing such that AIG retains 95% of risk and reward on the development of in-force reserves.

The Validus Acquisition, which is currently expected to close during the fourth quarter of 2023, is subject to customary closing conditions, including, among others, (i) the receipt of certain approvals of regulatory authorities and government-sponsored entities, (ii) the approval for listing of certain shares issued to AIG on the New York Stock Exchange, (iii) the contribution by AIG to certain Validus subsidiaries of an aggregate amount in cash equal to the amount by which the estimated tangible book value of the acquired entities is less than \$2.1 billion, (iv) the consummation of certain restructuring transactions involving certain of the Validus entities, and (v) the redemption, satisfaction or discharge of certain debt obligations of Validus.

NOTE 16. SUBSEQUENT EVENT

Effective July 1, 2023, RenaissanceRe purchased \$45.8 million of shares in DaVinci from a third-party investor. The Company's noncontrolling economic ownership in DaVinci subsequent to this transaction was 27.8%, effective July 1, 2023.

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

The following is a discussion and analysis of our results of operations for the three and six months ended June 30, 2023 and 2022, as well as our liquidity and capital resources at June 30, 2023. This discussion and analysis should be read in conjunction with the unaudited consolidated financial statements and notes thereto included in this filing and the audited consolidated financial statements and notes thereto contained in our Form 10-K for the fiscal year ended December 31, 2022. This filing contains forward-looking statements that involve risks and uncertainties. Actual results may differ materially from the results described or implied by these forward-looking statements. See "Note on Forward-Looking Statements."

In this Form 10-Q, references to "RenaissanceRe" refer to RenaissanceRe Holdings Ltd. (the parent company) and references to "we," "us," "our" and the "Company" refer to RenaissanceRe Holdings Ltd. together with its subsidiaries, unless the context requires otherwise. Defined terms used throughout this Form 10-Q are included in the "Glossary of Defined Terms" at the beginning of this Form 10-Q.

All dollar amounts referred to in this Form 10-Q are in U.S. dollars unless otherwise indicated.

Due to rounding, numbers presented in the tables included in this Form 10-Q may not add up precisely to the totals provided.

INDEX TO MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

	Page
OVERVIEW	61
SUMMARY OF CRITICAL ACCOUNTING ESTIMATES	63
SUMMARY RESULTS OF OPERATIONS	64
FINANCIAL CONDITION, LIQUIDITY AND CAPITAL RESOURCES	89
Financial Condition	89
Liquidity and Cash Flows	89
Capital Resources	95
Reserve for Claims and Claim Expenses	96
Investments	98
Ratings	100
SUPPLEMENTAL GUARANTOR FINANCIAL INFORMATION	101
CURRENT OUTLOOK	103

OVERVIEW

RenaissanceRe is a global provider of reinsurance and insurance that specializes in matching well-structured risks with efficient sources of capital. We provide property, casualty and specialty reinsurance and certain insurance solutions to customers, principally through intermediaries. Established in 1993, we have offices in Bermuda, Australia, Ireland, Singapore, Switzerland, the U.K., and the U.S. We are one of the world's leading providers of property and, casualty and specialty reinsurance.

Our mission is to match desirable, well-structured risks with efficient sources of capital to achieve our vision of being the best underwriter. We believe that this will allow us to produce superior returns for our shareholders over the long term, and to further our purpose of protecting communities and enabling prosperity. We seek to accomplish these goals by (i) being a trusted, long-term partner to our customers for assessing and managing risk, (ii) delivering responsive and innovative solutions, (iii) leveraging our core capabilities of risk assessment and information management, (iv) investing in these core capabilities in order to serve our customers across market cycles, and (v) keeping our promises.

Our core products include property, casualty and specialty reinsurance, and certain insurance products, principally distributed through intermediaries with whom we have cultivated strong long-term relationships. Our business consists of the following reportable segments: (1) Property, which is comprised of catastrophe and other property (re)insurance, and (2) Casualty and Specialty, which is comprised of casualty and specialty (re)insurance. The underwriting results of our consolidated operating subsidiaries and underwriting platforms are included in our Property and Casualty and Specialty segment results as appropriate.

Our strategy focuses on operating as an integrated system of three competitive advantages: superior risk selection, superior customer relationships and superior capital management. We provide value to our customers and partners in the form of financial security, innovative products, and responsive service. We are known as a leader in paying valid claims promptly.

We have three principal drivers of profit that generate diversified earnings streams for our business - underwriting income, fee income, and investment income. Underwriting income is the income that we earn from our core underwriting business. By accepting the volatility that this business brings, we believe that we can generate superior long-term returns and achieve our vision. Fee income is the income that we earn primarily from managing third-party capital in our Capital Partners unit, and is composed of management fee income and performance fee income. Investment income is income derived from the investment portfolio that we maintain to support our business. We take a disciplined approach in building a relatively conservative, well-structured investment portfolio with a focus on fixed income investments. Compared to underwriting income, we view fee income, in particular management fee income, and investment income, as relatively stable, less volatile, and capital efficient sources of income.

We principally measure our financial success through long-term growth in tangible book value per common share plus the change in accumulated dividends. We believe this metric is the most appropriate measure of our financial performance, and in respect of which we believe we have delivered superior performance over time.

Our current business strategy focuses predominantly on writing reinsurance, although we also write excess and surplus lines insurance through delegated authority arrangements. Additionally, we pursue a number of other opportunities, such as creating and managing our joint ventures and managed funds, executing customized reinsurance transactions to assume or cede risk, and managing certain strategic investments directed at classes of risk other than catastrophe reinsurance. From time to time we consider diversification into new ventures, either through organic growth, the formation of new joint ventures or managed funds, or the acquisition of, or the investment in, other companies or books of business of other companies.

We continually explore appropriate and efficient ways to address the risk needs of our clients and the impact of various regulatory and legislative changes on our operations. We have created, and manage, multiple capital vehicles across several jurisdictions and may create additional risk bearing vehicles or enter into additional jurisdictions in the future. In addition, our differentiated strategy and capabilities position us to pursue bespoke or large solutions for clients.

VALIDUS ACQUISITION

On May 22, 2023, we entered into a Stock Purchase Agreement with American International Group, Inc., a Delaware corporation and NYSE-listed company, pursuant to which, upon the terms and subject to the conditions thereof, we agreed to, or to cause one of our subsidiaries to, purchase, acquire and accept from certain subsidiaries of AIG, all of their right, title and interest in the shares of certain direct and indirect subsidiaries of AIG, including Validus Holdings, Ltd., and Validus Specialty, LLC. Substantially all of the assets of Validus Holdings are comprised of its equity interest in its wholly-owned subsidiary, Validus Reinsurance, Ltd. In the Stock Purchase Agreement, we also agreed to acquire the renewal rights, records and customer relationships of Talbot Underwriting Ltd., an affiliate of AIG, a specialty (re)insurance group operating within the Lloyd's market.

In connection with the Validus Acquisition, we will pay to AIG aggregate consideration of approximately \$2.985 billion, subject to adjustment, consisting of the following: (i) cash consideration of approximately \$2.735 billion; and (ii) a number of our common shares with a value of approximately \$250.0 million, which common shares will be valued at \$189.03 per share (the "Base Common Share Consideration"). We have agreed to enter into a registration rights agreement with AIG in respect of the Base Common Share Consideration prior to the completion of the Validus Acquisition. AIG also has the option to make a substantial investment into our Capital Partners vehicles. The Validus Acquisition, which is currently expected to close during the fourth quarter of 2023, is subject to customary closing conditions.

We believe that the Validus Acquisition has several significant strategic benefits for us. We believe that it advances our strategy as a pure-play global property and casualty reinsurer, providing additional scale and increasing our importance with customers and brokers. Through the Validus Acquisition, we expect to gain access to a large, attractive book of reinsurance business that is closely aligned with our existing business mix. We believe the Validus Acquisition can also accelerate our growth in a favorable market, as we believe our increased scale following the Validus Acquisition would position us among the five largest global property and casualty reinsurers. We believe the Validus Acquisition will be immediately accretive to our shareholders upon completion. At the same time, we intend to deepen our relationship with a core trading partner, AIG, who is one of our five largest clients by premium volume, as the Validus Acquisition provides options for increased future strategic engagement. The statements set forth in this paragraph generally represent our goals and not projections.

Revenues and Expenses

Our revenues are principally derived from three sources: (1) net premiums earned from the reinsurance and insurance policies we sell; (2) net investment income and net realized and unrealized gains from the investment of our capital funds and the investment of the cash we receive on the policies which we sell; and (3) fees received from our joint ventures, managed funds and structured reinsurance products, which are primarily reflected in redeemable noncontrolling interest or as an offset to acquisition or operating expenses.

Our expenses primarily consist of: (1) net claims and claim expenses incurred on the policies of reinsurance and insurance we sell; (2) acquisition costs, which typically represent a percentage of the premiums we write; (3) operating expenses, which primarily consist of personnel expenses, rent and other expenses; (4) corporate expenses, which include certain executive, legal and consulting expenses, costs for research and development, transaction and integration-related expenses, and other miscellaneous costs, including those associated with operating as a publicly traded company; and (5) interest and dividends related to our debt and preference shares. We are also subject to taxes in certain jurisdictions in which we operate. Since the majority of our income is currently earned in Bermuda, which does not have a corporate income tax, the tax impact to our operations has historically been minimal.

The underwriting results of an insurance or reinsurance company are discussed frequently by reference to its net claims and claim expense ratio, underwriting expense ratio, and combined ratio. The net claims and claim expense ratio is calculated by dividing net claims and claim expenses incurred by net premiums earned. The underwriting expense ratio is calculated by dividing underwriting expenses (acquisition expenses and operational expenses) by net premiums earned. The combined ratio is the sum of the net claims and claim expense ratio and the underwriting expense ratio. A combined ratio below 100% indicates profitable underwriting prior to the consideration of investment income. A combined ratio over 100% indicates unprofitable underwriting prior to the consideration of investment income. We also discuss our net claims and claim expense ratio on a current accident year basis and a prior accident years basis. The

current accident year net claims and claim expense ratio is calculated by taking current accident year net claims and claim expenses incurred, divided by net premiums earned. The prior accident years net claims and claim expense ratio is calculated by taking prior accident years net claims and claim expenses incurred, divided by net premiums earned.

We manage DaVinci, Fontana, Medici, and Vermeer, and own all, or a majority, of the voting interests, but own no, or a minority, economic interest of each. As a result of our controlling voting interests, we fully consolidate these entities in our financial statements, even though we do not retain the full value of economic outcomes generated by these entities. The portions of the economic outcomes that are not retained by us are ultimately allocated to the third-party investors who hold the noncontrolling interests in these entities. The economic outcomes may include underwriting results, investments results, and foreign exchange impacts, among other items. For example, if one of these entities were to generate underwriting losses due to a natural catastrophe, the full amount would be reflected in net income (loss) on our consolidated statements of operations, but ultimately we would only retain a portion of that amount in our net income (loss) attributable to RenaissanceRe. In the Company's consolidated balance sheets and consolidated statements of operations, we allocate the portion of these items attributable to third parties in the "Net (income) loss attributable to redeemable noncontrolling interests" line item. Refer to "Note 8. Noncontrolling Interests" in our "Notes to the Consolidated Financial Statements" for additional information regarding our redeemable noncontrolling interests and how this accounting treatment impacts the Company's financial results.

Effects of Inflation

General economic inflation has increased over the past few years compared to recent historical norms, and there is a risk of inflation remaining elevated for an extended period, which could cause claims and claim expenses to increase, impact the performance of our investment portfolio, or have other adverse effects. This risk may have been exacerbated by the impact from the war in Ukraine and global supply chain issues, among other factors. Many central banks have been raising interest rates, which could act as a countervailing force against some of these inflationary pressures. The actual effects of the current and potential future increase in inflation on our results cannot be accurately known until, among other items, claims are ultimately settled. The duration and severity of an inflationary period cannot be estimated with precision. We consider the anticipated effects of inflation on us in our catastrophe loss models and on our investment portfolio. Our estimates of the potential effects of inflation are also considered in pricing and in estimating reserves for unpaid claims and claim expenses. The potential exists, after a catastrophe loss, for the development of inflationary pressures in a local economy.

SUMMARY OF CRITICAL ACCOUNTING ESTIMATES

Our critical accounting estimates include "Claims and Claim Expense Reserves," "Premiums and Related Expenses," "Reinsurance Recoverables," "Fair Value Measurements and Impairments" and "Income Taxes," and are discussed in Management's Discussion and Analysis of Financial Condition and Results of Operations in our Form 10-K for the year ended December 31, 2022. There have been no material changes to our critical accounting estimates as disclosed in our Form 10-K for the year ended December 31, 2022.

SUMMARY OF RESULTS OF OPERATIONS

Below is a discussion of the results of operations for the second quarter of 2023, compared to the second quarter of 2022.

Three months ended June 30, (in thousands, except per share amounts and percentages)	2023	2022	Change
Statement of operations highlights			
Gross premiums written	\$ 2,651,621	\$ 2,464,639	\$ 186,982
Net premiums written	\$ 2,195,803	\$ 1,863,616	\$ 332,187
Net premiums earned	\$ 1,785,262	\$ 1,456,383	\$ 328,879
Net claims and claim expenses incurred	931,211	706,239	224,972
Acquisition expenses	422,545	361,238	61,307
Operational expenses	80,491	72,520	7,971
Underwriting income (loss)	\$ 351,015	\$ 316,386	\$ 34,629
Net investment income	\$ 292,662	\$ 107,211	\$ 185,451
Net realized and unrealized gains (losses) on investments	(222,781)	(654,107)	431,326
Total investment result	\$ 69,881	\$ (546,896)	\$ 616,777
Net income (loss)	\$ 374,776	\$ (266,738)	\$ 641,514
Net income (loss) available (attributable) to RenaissanceRe common shareholders	\$ 191,025	\$ (324,913)	\$ 515,938
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – diluted	\$ 4.09	\$ (7.53)	\$ 11.62
Dividends per common share	\$ 0.38	\$ 0.37	\$ 0.01
Key ratios			
Net claims and claim expense ratio – current accident year	54.0 %	51.4 %	2.6 pts
Net claims and claim expense ratio – prior accident years	(1.8)%	(2.9)%	1.1 pts
Net claims and claim expense ratio – calendar year	52.2 %	48.5 %	3.7 pts
Underwriting expense ratio	28.1 %	29.8 %	(1.7)pts
Combined ratio	80.3 %	78.3 %	2.0 pts
Return on average common equity - annualized	13.5 %	(25.1)%	38.6 pts
Book value			
	June 30, 2023	March 31, 2023	Change
Book value per common share	\$ 129.98	\$ 116.44	\$ 13.54
Accumulated dividends per common share	25.76	25.38	0.38
Book value per common share plus accumulated dividends	\$ 155.74	\$ 141.82	\$ 13.92
Change in book value per common share plus change in accumulated dividends	12.0 %		

Net income available to RenaissanceRe common shareholders was \$191.0 million in the second quarter of 2023, compared to net loss attributable to RenaissanceRe common shareholders of \$324.9 million in the second quarter of 2022, an increase of \$515.9 million. As a result of our net income available to RenaissanceRe common shareholders in the second quarter of 2023, we generated an annualized return on average common equity of 13.5% and our book value per common share increased from \$116.44 at March 31, 2023 to \$129.98 at June 30, 2023, a 12.0% increase, after considering the change in accumulated dividends paid to our common shareholders.

The most significant items affecting our financial performance during the second quarter of 2023, on a comparative basis to the second quarter of 2022, include:

- *Underwriting Results* - we generated underwriting income of \$351.0 million and had a combined ratio of 80.3% in the second quarter of 2023, compared to underwriting income of \$316.4 million and a combined ratio of 78.3% in the second quarter of 2022. Our underwriting income in the second quarter of 2023 was comprised of our Property segment, which generated underwriting income of \$281.0 million and had a combined ratio of 63.0%, and our Casualty and Specialty segment, which generated underwriting income of \$70.0 million and had a combined ratio of 93.2%. In comparison, our underwriting income in the second quarter of 2022 was comprised of our Property segment, which generated an underwriting income of \$264.5 million and had a combined ratio of 57.6%, and our Casualty and Specialty segment, which generated underwriting income of \$51.9 million and had a combined ratio of 93.8%;
- Notwithstanding our strong results in the second quarter of 2023, our underwriting results in the second quarter of 2023 were impacted by the 2023 Large Loss Events (as defined below), which resulted in a net negative impact on the underwriting result of \$68.5 million and added 4.2 percentage points to the consolidated combined ratio, all in the Property segment;
- *Investment Results* - our total investment result, which includes the sum of net investment income and net realized and unrealized gains (losses) on investments, was income of \$69.9 million in the second quarter of 2023, compared to a loss of \$546.9 million in the second quarter of 2022. The primary drivers of the improved total investment result were an increase in net investment income of \$185.5 million, and a reduction in net realized and unrealized losses on investments of \$431.3 million;
- *Net Income Attributable to Redeemable Noncontrolling Interests* - our net income attributable to redeemable noncontrolling interests was \$174.9 million in the second quarter of 2023, compared to net income attributable to redeemable noncontrolling interest of \$49.3 million in the second quarter of 2022. Net income attributable to redeemable noncontrolling interests in the second quarter of 2023 was primarily driven by underwriting income generated by DaVinci and Vermeer, net investment income resulting from higher interest rates and yields within the investment portfolios of the Company's joint ventures and managed funds, and net realized and unrealized gains on catastrophe bonds held in Medici;
- *Gross Premiums Written* - our gross premiums written increased by \$187.0 million, or 7.6%, to \$2.7 billion, in the second quarter of 2023, compared to the second quarter of 2022. This was comprised of an increase of \$184.3 million in our Property segment and an increase of \$2.7 million in our Casualty and Specialty segment;
- *Impact of Large Loss Events* - we had a net negative impact on net income available to RenaissanceRe common shareholders of \$44.6 million resulting from the 2023 Large Loss Events.

Net Negative Impact

Net negative impact on underwriting result includes the sum of (1) net claims and claim expenses incurred, (2) assumed and ceded reinstatement premiums earned and (3) earned and lost profit commissions. Net negative impact on net income (loss) available (attributable) to RenaissanceRe common shareholders is the sum of (1) net negative impact on underwriting result and (2) redeemable noncontrolling interest, both before consideration of any related income tax benefit (expense).

Our estimates of net negative impact are based on a review of our potential exposures, preliminary discussions with certain counterparties and actuarial modeling techniques. Our actual net negative impact, both individually and in the aggregate, may vary from these estimates, perhaps materially. Changes in these estimates will be recorded in the period in which they occur.

Meaningful uncertainty remains regarding the estimates and the nature and extent of the losses from these catastrophe events, driven by the magnitude and recent nature of each event, the geographic areas impacted by the events, relatively limited claims data received to date, the contingent nature of business interruption and other exposures, potential uncertainties relating to reinsurance recoveries and other factors inherent in loss estimation, among other things.

The financial data below provides additional information detailing the net negative impact on our consolidated financial statements in the second quarter of 2023 from the 2023 Large Loss Events.

Three months ended June 30, 2023 (in thousands)	2023 Large Loss Events ⁽¹⁾
Net claims and claims expenses incurred	\$ (95,278)
Assumed reinstatement premiums earned	26,752
Ceded reinstatement premiums earned	—
Earned (lost) profit commissions	—
Net negative impact on underwriting result	(68,526)
Redeemable noncontrolling interest	23,949
Net negative impact on net income (loss) available (attributable) to RenaissanceRe common shareholders	<u>\$ (44,577)</u>

The financial data below provides additional information detailing the net negative impact of the 2023 Large Loss Events on our segment underwriting results and consolidated combined ratio in the second quarter of 2023.

Three months ended June 30, 2023 (in thousands, except percentages)	2023 Large Loss Events ⁽¹⁾
Net negative impact on Property segment underwriting result	\$ (68,526)
Net negative impact on Casualty and Specialty segment underwriting result	—
Net negative impact on underwriting result	<u>\$ (68,526)</u>
Percentage point impact on consolidated combined ratio	<u>4.2</u>

- (1) "2023 Large Loss Events" includes the earthquakes which impacted southern and central Turkey in February 2023, Cyclone Gabrielle which impacted northern New Zealand, the flooding that impacted northern New Zealand in January and February 2023, and various wind and thunderstorm events which impacted states in both the Southern and Midwest U.S. during March 2023 ("Q1 2023 Large Loss Events"), and a series of large, severe weather events that impacted Texas and other southern and central U.S. states in June 2023. Net negative impact for the three months ended June 30, 2023 includes an increase of approximately \$20.0 million in the net negative impact of the Q1 2023 Large Loss Events during the second quarter.

Underwriting Results by Segment

Property Segment

Below is a summary of the underwriting results and ratios for our Property segment:

Three months ended June 30, (in thousands, except percentages)	2023	2022	Change
Gross premiums written	\$ 1,402,606	\$ 1,218,321	\$ 184,285
Net premiums written	\$ 1,144,655	\$ 887,975	\$ 256,680
Net premiums earned	\$ 758,686	\$ 623,581	\$ 135,105
Net claims and claim expenses incurred	281,993	171,924	110,069
Acquisition expenses	140,606	137,567	3,039
Operational expenses	55,077	49,627	5,450
Underwriting income (loss)	\$ 281,010	\$ 264,463	\$ 16,547
Net claims and claim expenses incurred – current accident year	\$ 313,632	\$ 206,976	\$ 106,656
Net claims and claim expenses incurred – prior accident years	(31,639)	(35,052)	3,413
Net claims and claim expenses incurred – total	\$ 281,993	\$ 171,924	\$ 110,069
Net claims and claim expense ratio – current accident year	41.3 %	33.2 %	8.1 pts
Net claims and claim expense ratio – prior accident years	(4.1)%	(5.6)%	1.5 pts
Net claims and claim expense ratio – calendar year	37.2 %	27.6 %	9.6 pts
Underwriting expense ratio	25.8 %	30.0 %	(4.2)pts
Combined ratio	63.0 %	57.6 %	5.4 pts

Property Gross Premiums Written

In the second quarter of 2023, our Property segment gross premiums written increased by \$184.3 million, or 15.1%, to \$1.4 billion, compared to the second quarter of 2022.

Gross premiums written in the catastrophe class of business were \$1.0 billion in the second quarter of 2023, an increase of \$198.5 million, or 24.7%, compared to the second quarter of 2022. This increase was principally driven by rate improvements on deals written in the second quarter of 2023, partially offset by the non-renewal of deals written on our Upsilon RFO balance sheet of \$110.0 million, compared to the second quarter of 2022. In the second quarter of 2023 there was an increase in gross reinstatement premiums of \$29.2 million in the catastrophe class of business, compared to a reduction of \$0.2 million in the second quarter of 2022, resulting in an increase in gross reinstatement premiums of \$29.4 million compared to the second quarter of 2022.

Gross premiums written in the other property class of business were \$400.8 million in the second quarter of 2023, a decrease of \$14.2 million, or 3.4%, compared to the second quarter of 2022. The decrease in gross premiums written in the other property class of business was principally due to the non-renewal of certain catastrophe exposed quota share programs that did not meet our return hurdles.

Property Ceded Premiums Written

Three months ended June 30, (in thousands)	2023	2022	Change
Ceded premiums written	\$ 257,951	\$ 330,346	\$ (72,395)

Ceded premiums written in our Property segment were \$258.0 million in the second quarter of 2023, a decrease of \$72.4 million, or 21.9%, compared to the second quarter of 2022. The decrease in ceded

premiums written was primarily driven by a reduction of \$106.0 million in premiums ceded to Upsilon RFO following a reduction in the size of Upsilon Diversified, a segregated account of Upsilon Fund, with a corresponding decrease in gross premiums written, as discussed above, partially offset by higher ceded premiums written reflecting an increase in our retrocessional purchases as a part of our gross-to-net strategy.

We purchase reinsurance to reduce our exposure to large losses and to help manage our risk portfolio. To the extent that appropriately priced coverage is available, we anticipate continued use of retrocessional reinsurance to reduce the impact of large losses on our financial results and to manage our portfolio of risk.

Property Net Premiums Written

<u>Three months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Net premiums written	\$ 1,144,655	\$ 887,975	\$ 256,680

Net premiums written in our Property segment were \$1.1 billion in the second quarter of 2023, an increase of \$256.7 million, or 28.9%, compared to the second quarter of 2022. The increase in net premiums written is driven by rate improvements on deals written in our catastrophe class of business in the second quarter of 2023, combined with a reduction in our ceded premiums written, as discussed above. This increase was partially offset by the reduction in gross premiums written in the other property class of business. Included in net premiums written in the second quarter of 2023 were net reinstatement premiums of \$30.2 million compared to \$2.4 million in the second quarter of 2022, resulting in an increase in net reinstatement premiums of \$27.8 million compared to the second quarter of 2022, primarily within the catastrophe class of business.

Property Underwriting Results

Our Property segment generated underwriting income of \$281.0 million in the second quarter of 2023, compared to underwriting income of \$264.5 million in the second quarter of 2022. In the second quarter of 2023, our Property segment generated a net claims and claim expense ratio of 37.2%, an underwriting expense ratio of 25.8% and a combined ratio of 63.0%, compared to 27.6%, 30.0% and 57.6%, respectively, in the second quarter of 2022.

Impacting the underwriting result and combined ratio in the second quarter of 2023 were the 2023 Large Loss Events, which resulted in a net negative impact on the Property segment underwriting result of \$68.5 million and added 10.8 percentage points to the Property segment combined ratio, reflecting impacts in both the catastrophe and other property classes of business.

The net claims and claim expense ratio of 37.2% is comprised of a current accident year net claims and claim expense ratio of 41.3% and 4.1 percentage points of net favorable development of prior accident years. In comparison, the second quarter of 2022 had a net claims and claim expense ratio of 27.6%, comprised of a current accident year net claims and claim expense ratio of 33.2% and 5.6 percentage points of net favorable development of prior accident years. The increase of 8.1 percentage points in the current accident year net claims and claim expense ratio is primarily a result of the impact from the 2023 Large Loss Events, which contributed 11.5 percentage points to the Property segment current accident year net claims and claim expense ratio.

The underwriting expense ratio decreased 4.2 percentage points, largely driven by greater operating leverage from the increase in net earned premiums from the catastrophe class of business.

See "Note 6. Reserve for Claims and Claim Expenses" in our "Notes to the Consolidated Financial Statements" for additional information related to the development of prior accident years net claims and claim expenses.

Casualty and Specialty Segment

Below is a summary of the underwriting results and ratios for our Casualty and Specialty segment:

Three months ended June 30, (in thousands, except percentages)	2023	2022	Change
Gross premiums written	\$ 1,249,015	\$ 1,246,318	\$ 2,697
Net premiums written	\$ 1,051,148	\$ 975,641	\$ 75,507
Net premiums earned	\$ 1,026,576	\$ 832,802	\$ 193,774
Net claims and claim expenses incurred	649,218	534,315	114,903
Acquisition expenses	281,939	223,671	58,268
Operational expenses	25,414	22,893	2,521
Underwriting income (loss)	\$ 70,005	\$ 51,923	\$ 18,082
Net claims and claim expenses incurred – current accident year	\$ 649,677	\$ 542,220	\$ 107,457
Net claims and claim expenses incurred – prior accident years	(459)	(7,905)	7,446
Net claims and claim expenses incurred – total	\$ 649,218	\$ 534,315	\$ 114,903
Net claims and claim expense ratio – current accident year	63.3 %	65.1 %	(1.8)pts
Net claims and claim expense ratio – prior accident years	(0.1)%	(0.9)%	0.8 pts
Net claims and claim expense ratio – calendar year	63.2 %	64.2 %	(1.0)pts
Underwriting expense ratio	30.0 %	29.6 %	0.4 pts
Combined ratio	93.2 %	93.8 %	(0.6)pts

Casualty and Specialty Gross Premiums Written

In the second quarter of 2023, our Casualty and Specialty segment gross premiums written were \$1.2 billion, which is comparable to the second quarter of 2022. Growth in gross premiums written in the other specialty class of business was largely offset by a decrease in the professional liability class of business. The increase in gross premiums written within other specialty principally reflects increases in new and existing business underwritten in both the current and prior periods.

The majority of our Casualty and Specialty segment premiums consists of proportional business. Our relative mix of business between proportional business and excess of loss business has fluctuated in the past and will likely continue to do so in the future. Proportional business typically has a higher expense ratio and tends to be exposed to more attritional and frequent losses, while being subject to less expected severity compared to traditional excess of loss business.

Casualty and Specialty Ceded Premiums Written

Three months ended June 30, (in thousands)	2023	2022	Change
Ceded premiums written	\$ 197,867	\$ 270,677	\$ (72,810)

Ceded premiums written in our Casualty and Specialty segment decreased by \$72.8 million, to \$197.9 million in the second quarter of 2023, compared to \$270.7 million in the second quarter of 2022, driven by the reduction in our retrocessional purchases. In 2023, as part of our gross-to-net strategy, we reduced our retrocessional purchases in conjunction with increasing the casualty and specialty business assumed by Fontana.

As in our Property segment, the buying of ceded reinsurance in our Casualty and Specialty segment is based on market opportunities and is not based on placing a specific reinsurance program each year.

Casualty and Specialty Net Premiums Written

Three months ended June 30, (in thousands)	2023	2022	Change
Net premiums written	\$ 1,051,148	\$ 975,641	\$ 75,507

Net premiums written in our Casualty and Specialty segment increased by \$75.5 million, or 7.7%, to \$1.1 billion in the second quarter of 2023, compared to \$1.0 billion in the second quarter of 2022, as a result of the decrease in ceded premiums written.

Casualty and Specialty Underwriting Results

Our Casualty and Specialty segment generated underwriting income of \$70.0 million in the second quarter of 2023, compared to underwriting income of \$51.9 million in the second quarter of 2022. In the second quarter of 2023, our Casualty and Specialty segment generated a net claims and claim expense ratio of 63.2%, an underwriting expense ratio of 30.0% and a combined ratio of 93.2%, compared to 64.2%, 29.6% and 93.8%, respectively, in the second quarter of 2022.

The improvement in the Casualty and Specialty segment combined ratio in the second quarter of 2023 was primarily driven by the decrease of 1.0 percentage points in the net claims and claims expense ratio, mainly as a result of lower current accident year attritional losses.

See "Note 6. Reserve for Claims and Claim Expenses" in our "Notes to the Consolidated Financial Statements" for additional information related to the development of prior accident years net claims and claim expenses.

Fee Income

Three months ended June 30, (in thousands)	2023	2022	Change
Management Fee Income			
Joint ventures	\$ 30,313	\$ 17,703	\$ 12,610
Structured reinsurance products	6,985	6,649	336
Managed funds	6,141	6,355	(214)
Total management fee income	43,439	30,707	12,732
Performance Fee Income			
Joint ventures	13,132	1,037	12,095
Structured reinsurance products	(197)	2,486	(2,683)
Managed funds	307	25	282
Total performance fee income	13,242	3,548	9,694
Total fee income	\$ 56,681	\$ 34,255	\$ 22,426

The table above shows total fee income earned through third-party capital management activities, including various joint ventures, managed funds and certain structured retrocession agreements to which we are a party. Performance fees are based on the performance of the individual vehicles or products, and may be zero or negative in a particular period if, for example, large losses occur, which can potentially result in no performance fees or the reversal of previously accrued performance fees. Joint ventures include DaVinci, Top Layer, Vermeer, Fontana and certain entities investing in Langhorne Holdings LLC. Managed funds include Upsilon Fund and Medici. Structured reinsurance products and other includes certain reinsurance contracts and certain other vehicles through which we transfer risk to third-party capital.

In the second quarter of 2023, total fee income earned through third-party capital management activities increased \$22.4 million, to \$56.7 million, compared to \$34.3 million in the second quarter of 2022, primarily due to higher management and performance fee income in the second quarter of 2023 compared to the second quarter of 2022. Management fee income increased \$12.7 million compared to the second quarter of 2022, driven by increased capital managed at DaVinci, Vermeer, Medici, and Fontana, as well as the recording of management fees in DaVinci that were previously deferred as a result of the weather-related large losses experienced in prior years.

Performance fee income increased \$9.7 million compared to the second quarter of 2022, driven by current underwriting year results.

The fees earned through third-party capital management activities are principally recorded through redeemable noncontrolling interest, or as an increase to underwriting income (reduction to underwriting loss), through a decrease in operating expenses or acquisition expenses. Below is a summary of the impact of fee income on the applicable financial statement line items.

Three months ended June 30, (in thousands)	2023	2022	Change
Underwriting income (loss) - fee income on third-party capital management activities ⁽¹⁾	\$ 8,184	\$ 12,751	\$ (4,567)
Equity in earnings of other ventures	(417)	27	(444)
Net income (loss) attributable to redeemable noncontrolling interest	48,914	21,477	27,437
Total fee income	\$ 56,681	\$ 34,255	\$ 22,426

(1) Reflects total fee income earned through third-party capital management activities recorded through underwriting income (loss) as a decrease (increase) to operating expenses or acquisition expenses. The \$8.2 million includes \$11.2 million of management fee income, recorded as a reduction to operating expenses and \$3.0 million of performance fee income recorded as an increase to acquisition expenses (2022 - \$12.8 million, \$11.6 million and a reduction of \$1.1 million, respectively).

In addition to the \$56.7 million of fee income earned through our third-party capital management activities described above, we earned additional fees of \$28.7 million on other underwriting-related activities,

primarily related to expense overrides paid to us by our reinsurers. These additional fees on other underwriting-related activities are recorded as a reduction to operating expenses or acquisition expenses, as applicable. The total fees recorded through underwriting income (loss) are detailed in the table below.

Three months ended June 30, (in thousands)	2023	2022	Change
Underwriting income (loss) - fee income on third-party capital management activities	\$ 8,184	\$ 12,751	\$ (4,567)
Underwriting income (loss) - additional fee income on other underwriting-related activities	28,662	25,750	2,912
Total fees recorded through underwriting income (loss) ⁽¹⁾	\$ 36,846	\$ 38,501	\$ (1,655)
Impact of total fees recorded through underwriting income (loss) on the combined ratio	2.1 %	2.6 %	(0.5)pts

(1) The \$36.8 million includes \$31.7 million of management fee income, recorded as a reduction to operating expenses and \$5.1 million of performance fee income recorded as a reduction to acquisition expenses (2022 - \$38.5 million, \$27.9 million and \$10.6 million, respectively).

Net Investment Income

Three months ended June 30, (in thousands)	2023	2022	Change
Fixed maturity investments trading	\$ 169,739	\$ 76,547	\$ 93,192
Short term investments	50,231	4,397	45,834
Equity investments	2,766	4,516	(1,750)
Other investments			
Catastrophe bonds	49,522	20,235	29,287
Other	20,820	6,894	13,926
Cash and cash equivalents	4,585	(95)	4,680
	297,663	112,494	185,169
Investment expenses	(5,001)	(5,283)	282
Net investment income	<u>\$ 292,662</u>	<u>\$ 107,211</u>	<u>\$ 185,451</u>

Net investment income was \$292.7 million in the second quarter of 2023, compared to \$107.2 million in the second quarter of 2022, an increase of \$185.5 million. This increase was primarily driven by higher interest rates, higher yielding assets in the fixed maturity and short term portfolios as a result of our reinvestment of the portfolio throughout 2022 and 2023, as well as increased catastrophe bond yields.

Net Realized and Unrealized Gains (Losses) on Investments

Three months ended June 30, (in thousands)	2023	2022	Change
Gross realized gains on fixed maturity investments trading	\$ 10,699	\$ 5,334	\$ 5,365
Gross realized losses on fixed maturity investments trading	(84,911)	(292,488)	207,577
Net realized gains (losses) on fixed maturity investments trading	(74,212)	(287,154)	212,942
Net unrealized gains (losses) on fixed maturity investments trading	(139,793)	(149,820)	10,027
Net realized and unrealized gains (losses) on fixed maturity investments trading	(214,005)	(436,974)	222,969
Net realized and unrealized gains (losses) on investments-related derivatives ⁽¹⁾	(65,051)	(66,078)	1,027
Net realized gains (losses) on equity investments	(18,755)	35,592	(54,347)
Net unrealized gains (losses) on equity investments	20,627	(127,104)	147,731
Net realized and unrealized gains (losses) on equity investments	1,872	(91,512)	93,384
Net realized and unrealized gains (losses) on other investments - catastrophe bonds	38,186	(24,660)	62,846
Net realized and unrealized gains (losses) on other investments - other	16,217	(34,883)	51,100
Net realized and unrealized gains (losses) on investments	<u>\$ (222,781)</u>	<u>\$ (654,107)</u>	<u>\$ 431,326</u>

(1) Net realized and unrealized gains (losses) on investment-related derivatives includes fixed maturity investments related derivatives (interest rate futures, interest rate swaps, credit default swaps and total return swaps), and equity investments related derivatives (equity futures). See "Note 13. Derivative Instruments" in our "Notes to Consolidated Financial Statements" for additional information.

We structure our investment portfolio to emphasize the preservation of capital and the availability of liquidity to meet our claims obligations, to be well diversified across market sectors, and to generate relatively attractive returns on a risk-adjusted basis over time. A large majority of our investments are invested in the fixed income markets and, therefore, our realized and unrealized holding gains and losses on investments are highly correlated to fluctuations in interest rates. As interest rates decline, we tend to have realized and unrealized gains from our investment portfolio, and as interest rates rise, we tend to have realized and unrealized losses from our investment portfolio.

Net realized and unrealized losses on investments were \$222.8 million in the second quarter of 2023, compared to net realized and unrealized losses of \$654.1 million in the second quarter of 2022. Impacting our net realized and unrealized losses on investments in the second quarter of 2023 were:

- net realized and unrealized losses on fixed maturity investments trading of \$214.0 million in the second quarter of 2023, compared to net realized and unrealized losses of \$437.0 million in the second quarter of 2022, driven by interest rate increases which were generally lower in the second quarter of 2023 than the interest rate increases in the second quarter of 2022.
- net realized and unrealized gains on equity investments of \$1.9 million compared to losses of \$91.5 million in the second quarter of 2022. The equity investment results for both the current and prior period were in line with wider equity market movements, with the current period gains being less prominent following a significant reduction in our equity portfolio allocation during the second quarter of 2023.
- net realized and unrealized gains on catastrophe bonds of \$38.2 million compared to losses of \$24.7 million in the second quarter of 2022. The net realized and unrealized gains in the second quarter of 2023, and losses in the second quarter of 2022, were each primarily reflected in the Medici portfolio, and predominantly attributable to third party investors through net income (loss) attributable to redeemable noncontrolling interest. Both the current and comparative quarter results reflected changes in risk spreads in the wider catastrophe bond market.

Net Foreign Exchange Gains (Losses)

Three months ended June 30, (in thousands)	2023	2022	Change
Net foreign exchange gains (losses)	\$ (13,488)	\$ (50,821)	\$ 37,333

In the second quarter of 2023, net foreign exchange losses were \$13.5 million compared to \$50.8 million in the second quarter of 2022. The net foreign exchange losses in the second quarter of 2023 and 2022 were primarily driven by losses attributable to third-party investors in Medici which are allocated through noncontrolling interest, in addition to the impact of certain foreign exchange exposures related to our underwriting activities in the second quarter of 2022.

Our functional currency is the U.S. dollar. We routinely write a portion of our business in currencies other than U.S. dollars and invest a portion of our cash and investment portfolio in those currencies. We are primarily impacted by foreign currency exposures associated with our underwriting operations and our investment portfolio, and may, from time to time, enter into foreign currency forward and option contracts to minimize the effect of fluctuating foreign currencies on the value of non-U.S. dollar denominated assets and liabilities.

Refer to "Part II, Item 7A. Quantitative and Qualitative Disclosures About Market Risk" in our Form 10-K for the year ended December 31, 2022 for additional information related to our exposure to foreign currency risk and "Note 13. Derivative Instruments" in our "Notes to the Consolidated Financial Statements" for additional information related to foreign currency forward and option contracts we have entered into.

Equity in Earnings (Losses) of Other Ventures

Three months ended June 30, (in thousands)	2023	2022	Change
Tower Hill Companies	\$ 5,379	\$ 1,620	\$ 3,759
Top Layer	3,197	1,484	1,713
Other	(876)	4,279	(5,155)
Total equity in earnings (losses) of other ventures	\$ 7,700	\$ 7,383	\$ 317

Equity in earnings of other ventures represents our pro-rata share of the net income from our investments in the Tower Hill Companies, Top Layer, and our equity investments in a select group of insurance and insurance-related companies, which are included in Other. Except for Top Layer, which is recorded on a current quarter basis, equity in earnings of other ventures is recorded one quarter in arrears. The carrying value of these investments on our consolidated balance sheets, individually or in the aggregate, may differ from the realized value we may ultimately attain, perhaps significantly so.

Earnings from our investments in other ventures were \$7.7 million in the second quarter of 2023, compared to gains of \$7.4 million in the second quarter of 2022, an increase of \$0.3 million.

Corporate Expenses

Three months ended June 30, (in thousands)	2023	2022	Change
Corporate expenses	\$ 23,371	\$ 12,352	\$ 11,019

Corporate expenses include certain executive, director, legal and consulting expenses, costs for research and development, impairment charges related to goodwill and other intangible assets, and other miscellaneous costs, including those associated with operating as a publicly traded company, as well as costs incurred in connection with the Validus Acquisition. From time to time, we may revise the allocation of certain expenses between corporate and operating expenses to better reflect the characteristic of the underlying expense. Corporate expenses were \$23.4 million in the second quarter of 2023, compared to \$12.4 million in the second quarter of 2022, an increase of \$11.0 million which was primarily driven by expenses associated with the Validus Acquisition. We expect to incur additional costs and expenses

associated with the Validus Acquisition. These additional non-recurring costs may be significant, and it is possible that our ultimate costs will exceed our current estimates.

Income Tax Benefit (Expense)

Three months ended June 30, (in thousands)	2023	2022	Change
Income tax benefit (expense)	\$ (5,942)	\$ 30,534	\$ (36,476)

We recognized an income tax expense of \$5.9 million in the second quarter of 2023, compared to an income tax benefit of \$30.5 million in the second quarter of 2022. The income tax expense was primarily driven by operating income partially offset by investment losses in our taxable jurisdictions in the second quarter of 2023, compared to the income tax benefit in the second quarter of 2022, which was driven by investment losses and lower operating income primarily in our U.S. operations.

Net Income (Loss) Attributable to Redeemable Noncontrolling Interests

Three months ended June 30, (in thousands)	2023	2022	Change
Redeemable noncontrolling interest - DaVinci	\$ 59,527	\$ 58,822	\$ 705
Redeemable noncontrolling interest - Medici	62,190	(26,887)	89,077
Redeemable noncontrolling interest - Vermeer	52,163	22,937	29,226
Redeemable noncontrolling interest - Fontana	1,027	(5,541)	6,568
Net income (loss) attributable to redeemable noncontrolling interests	\$ 174,907	\$ 49,331	\$ 125,576

Our net income (loss) attributable to redeemable noncontrolling interests was \$174.9 million in the second quarter of 2023, compared to \$49.3 million in the second quarter of 2022, a change of \$125.6 million. This increase was primarily due to the following:

- DaVinci, which had higher net income in the second quarter of 2023 compared to the second quarter of 2022, primarily resulting from improved underwriting results and higher net investment income;
- Medici, which had net income in the second quarter of 2023 due to realized and unrealized gains on its catastrophe bond portfolio, in addition to increased net investment income;
- Vermeer, which had higher net income in the second quarter of 2023 compared to the second quarter of 2022, primarily resulting from higher net investment income and improved underwriting results; and
- Fontana, which was launched in the second quarter of 2022 and had higher net income in the second quarter of 2023 primarily due to realized and unrealized gains on investments.

SUMMARY OF RESULTS OF OPERATIONS

Below is a discussion of the results of operations for the six months ended June 30, 2023, compared to the six months ended June 30, 2022.

Six months ended June 30, (in thousands, except per share amounts and percentages)	2023	2022	Change
Statement of operations highlights			
Gross premiums written	\$ 5,441,882	\$ 5,407,603	\$ 34,279
Net premiums written	\$ 4,459,506	\$ 4,028,833	\$ 430,673
Net premiums earned	\$ 3,465,812	\$ 2,942,808	\$ 523,004
Net claims and claim expenses incurred	1,732,411	1,547,972	184,439
Acquisition expenses	854,802	737,745	117,057
Operational expenses	157,965	140,427	17,538
Underwriting income (loss)	\$ 720,634	\$ 516,664	\$ 203,970
Net investment income	\$ 547,040	\$ 190,902	\$ 356,138
Net realized and unrealized gains (losses) on investments	56,670	(1,327,124)	1,383,794
Total investment result	\$ 603,710	\$ (1,136,222)	\$ 1,739,932
Net income (loss)	\$ 1,215,066	\$ (664,219)	\$ 1,879,285
Net income (loss) available (attributable) to RenaissanceRe common shareholders	\$ 755,087	\$ (719,326)	\$ 1,474,413
Net income (loss) available (attributable) to RenaissanceRe common shareholders per common share – diluted	\$ 16.71	\$ (16.64)	\$ 33.35
Dividends per common share	\$ 0.76	\$ 0.74	\$ 0.02
Key ratios			
Net claims and claim expense ratio – current accident year	53.9 %	54.7 %	(0.8) pts
Net claims and claim expense ratio – prior accident years	(3.9)%	(2.1)%	(1.8) pts
Net claims and claim expense ratio – calendar year	50.0 %	52.6 %	(2.6) pts
Underwriting expense ratio	29.2 %	29.8 %	(0.6) pts
Combined ratio	79.2 %	82.4 %	(3.2) pts
Return on average common equity - annualized	28.9 %	(26.6)%	55.5 pts
Book value			
	June 30, 2023	December 31, 2022	Change
Book value per common share	\$ 129.98	\$ 104.65	\$ 25.33
Accumulated dividends per common share	25.76	25.00	0.76
Book value per common share plus accumulated dividends	\$ 155.74	\$ 129.65	\$ 26.09
Change in book value per common share plus change in accumulated dividends	24.9 %		

Net income available to RenaissanceRe common shareholders was \$755.1 million in the six months ended June 30, 2023, compared to net loss attributable to RenaissanceRe common shareholders of \$719.3 million in the six months ended June 30, 2022. As a result of our net income available to RenaissanceRe common shareholders in the six months ended June 30, 2023, we generated an annualized return on average common equity of 28.9% and our book value per common share increased from \$104.65 at December 31, 2022 to \$129.98 at June 30, 2023, a 24.9% increase, after considering the change in accumulated dividends paid to our common shareholders.

The most significant items affecting our financial performance during the six months ended June 30, 2023, on a comparative basis to the six months ended June 30, 2022, include:

- *Underwriting Results* - we generated underwriting income of \$720.6 million and had a combined ratio of 79.2% in the six months ended June 30, 2023, compared to \$516.7 million and a combined ratio of 82.4% in the six months ended June 30, 2022. Our underwriting income in the six months ended June 30, 2023 was comprised of our Property segment, which generated underwriting income of \$579.7 million in and had a combined ratio of 59.9%, and our Casualty and Specialty segment, which generated underwriting income of \$140.9 million in and had a combined ratio of 93.0%. In comparison, our underwriting income in the six months ended June 30, 2022 was comprised of our Property segment, which generated underwriting income of \$449.3 million and had a combined ratio of 63.8%, and our Casualty and Specialty segment, which generated underwriting income of \$67.4 million and had a combined ratio of 96.0%;

Included in our underwriting results in the six months ended June 30, 2023 was the impact of the 2023 Large Loss Events, which resulted in a net negative impact on the underwriting result of \$147.6 million and added 4.5 percentage points to the combined ratio, all within in our Property segment. In comparison, our underwriting results in the six months ended June 30, 2022 were impacted by the 2022 Weather-Related Large Losses, which resulted in a net negative impact on the underwriting result of \$104.9 million and added 3.6 percentage points to the combined ratio, primarily in our Property segment;
- *Gross Premiums Written* - our gross premiums written increased by \$34.3 million, or 0.6%, to \$5.4 billion, in the six months ended June 30, 2023, compared to the six months ended June 30, 2022. This was comprised of an increase of \$145.0 million in our Property segment, which was partially offset by a decrease of \$110.7 million in our Casualty and Specialty segment;
- *Investment Results* - our total investment result, which includes the sum of net investment income and net realized and unrealized gains (losses) on investments, was income of \$603.7 million in the six months ended June 30, 2023, compared to a loss of \$1.1 billion in the six months ended June 30, 2022, an increase of \$1.7 billion. The primary drivers of the improved total investment result were an improvement in net realized and unrealized gains (losses) on investments of \$1.4 billion and increased net investment income of \$356.1 million;
- *Net Income Attributable to Redeemable Noncontrolling Interests* - our net income attributable to redeemable noncontrolling interests was \$442.3 million in the six months ended June 30, 2023, compared to net income attributable to redeemable noncontrolling interest of \$37.4 million in the six months ended June 30, 2022. Net income attributable to redeemable noncontrolling interests in the six months ended June 30, 2023 was primarily driven by underwriting income generated by DaVinci and Vermeer, net investment income resulting from higher interest rates and yields within the investment portfolios of the Company's joint ventures and managed funds, and net realized and unrealized gains on catastrophe bonds held in Medici;
- *Impact of Large Loss Events* - we had a net negative impact on net income attributable to RenaissanceRe common shareholders of \$98.1 million resulting from the 2023 Large Loss Events. This compares to a net negative impact on net loss attributable to RenaissanceRe common shareholders of \$71.5 million resulting from the 2022 Weather-Related Large Losses and \$25.0 million resulting from losses related to the Russia-Ukraine War in the six months ended June 30, 2022.

Net Negative Impact

The financial data below provides additional information detailing the net negative impact on our consolidated financial statements in the six months ended June 30, 2023 of the 2023 Large Loss Events.

<u>Six months ended June 30, 2023</u>	<u>2023 Large Loss Events ⁽¹⁾</u>
(in thousands)	
Net claims and claims expenses incurred	\$ (176,756)
Assumed reinstatement premiums earned	29,876
Ceded reinstatement premiums earned	—
Earned (lost) profit commissions	(701)
Net negative impact on underwriting result	(147,581)
Redeemable noncontrolling interest	49,466
Net negative impact on net income (loss) available (attributable) to RenaissanceRe common shareholders	<u>\$ (98,115)</u>

The financial data below provides additional information detailing the net negative impact of the 2023 Large Loss Events on our segment underwriting results and consolidated combined ratio in the six months ended June 30, 2023.

<u>Six months ended June 30, 2023</u>	<u>2023 Large Loss Events ⁽¹⁾</u>
(in thousands, except percentages)	
Net negative impact on Property segment underwriting result	\$ (147,581)
Net negative impact on Casualty and Specialty segment underwriting result	—
Net negative impact on underwriting result	<u>\$ (147,581)</u>
Percentage point impact on consolidated combined ratio	<u>4.5</u>

- (1) "2023 Large Loss Events" includes the Q1 2023 Large Loss Events and series of large, severe weather events that impacted Texas and other southern and central U.S. states in June 2023.

The financial data below provides additional information detailing the net negative impact on our consolidated financial statements in the six months ended June 30, 2022 of the 2022 Weather-Related Large Losses.

Six months ended June 30, 2022 (in thousands)	2022 Weather-Related Large Losses ⁽¹⁾
Net claims and claims expenses incurred	\$ (116,328)
Assumed reinstatement premiums earned	11,716
Ceded reinstatement premiums earned	(256)
Net negative impact on underwriting result	(104,868)
Redeemable noncontrolling interest	33,413
Net negative impact on net income (loss) available (attributable) to RenaissanceRe common shareholders	\$ (71,455)

The financial data below provides additional information detailing the net negative impact of the 2022 Weather-Related Large Losses on our segment underwriting results and consolidated combined ratio in the six months ended June 30, 2022.

Six months ended June 30, 2022 (in thousands, except percentages)	2022 Weather-Related Large Losses ⁽¹⁾
Net negative impact on Property segment underwriting result	\$ (104,105)
Net negative impact on Casualty and Specialty segment underwriting result	(763)
Net negative impact on underwriting result	\$ (104,868)
Percentage point impact on consolidated combined ratio	3.6

(1) "2022 Weather-Related Large Losses" includes the Australian Floods which impacted Eastern Australia in February and March 2022, and Storm Eunice which impacted several areas in Europe in February 2022.

Russia-Ukraine War Losses

During the six months ended June 30, 2022, losses related to Russia's invasion of Ukraine resulted in a net negative impact on net income (loss) available (attributable) to RenaissanceRe common shareholders of \$25.0 million. This reflects net claims and claims expenses incurred and a net negative impact on underwriting result of \$27.2 million, which was solely in the Casualty and Specialty segment, partially offset by redeemable noncontrolling interest of \$2.2 million. The net negative impact on underwriting result had a 0.9 percentage point impact on the consolidated combined ratio.

Underwriting Results by Segment

Property Segment

Below is a summary of the underwriting results and ratios for our Property segment:

Six months ended June 30, (in thousands, except percentages)	2023	2022	Change
Gross premiums written	\$ 2,706,805	\$ 2,561,829	\$ 144,976
Net premiums written	\$ 2,164,484	\$ 1,778,141	\$ 386,343
Net premiums earned	\$ 1,446,106	\$ 1,242,172	\$ 203,934
Net claims and claim expenses incurred	469,602	431,685	37,917
Acquisition expenses	285,925	264,663	21,262
Operational expenses	110,890	96,559	14,331
Underwriting income (loss)	\$ 579,689	\$ 449,265	\$ 130,424
Net claims and claim expenses incurred – current accident year	\$ 582,934	\$ 483,495	\$ 99,439
Net claims and claim expenses incurred – prior accident years	(113,332)	(51,810)	(61,522)
Net claims and claim expenses incurred – total	\$ 469,602	\$ 431,685	\$ 37,917
Net claims and claim expense ratio – current accident year	40.3 %	38.9 %	1.4 pts
Net claims and claim expense ratio – prior accident years	(7.8)%	(4.1)%	(3.7) pts
Net claims and claim expense ratio – calendar year	32.5 %	34.8 %	(2.3) pts
Underwriting expense ratio	27.4 %	29.0 %	(1.6) pts
Combined ratio	59.9 %	63.8 %	(3.9) pts

Property Gross Premiums Written

In the six months ended June 30, 2023, our Property segment gross premiums written increased by \$145.0 million, or 5.7%, to \$2.7 billion, compared to \$2.6 billion in the six months ended June 30, 2022.

Gross premiums written in the catastrophe class of business were \$1.9 billion in the six months ended June 30, 2023, an increase of \$241.0 million, or 14.3%, compared to the six months ended June 30, 2022. This increase was principally driven by rate improvements on deals written in the first half of 2023, partially offset by the non-renewal of deals written on our Upsilon RFO balance sheet of \$259.6 million, compared to the first half of 2022. Included in gross premiums written in the catastrophe class of business in the first half of 2023 were gross reinstatement premiums of \$2.8 million, compared to \$22.9 million in the first half of 2022, resulting in a decrease in gross reinstatement premiums of \$20.1 million compared to the first six months of 2022.

Gross premiums written in the other property class of business were \$776.4 million in the six months ended June 30, 2023, a decrease of \$96.0 million, or 11.0%, compared to the six months ended June 30, 2022. The decrease in gross premiums written in the other property class of business was principally due to the non-renewal of certain catastrophe exposed quota share programs that did not meet our return hurdles.

Property Ceded Premiums Written

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Ceded premiums written	\$ 542,321	\$ 783,688	\$ (241,367)

Ceded premiums written in our Property segment decreased 30.8%, to \$542.3 million, in the six months ended June 30, 2023, compared to \$783.7 million in the six months ended June 30, 2022. The decrease in ceded premiums written was driven by a reduction of \$228.7 million in premiums ceded to Upsilon RFO following a reduction in the size of Upsilon Diversified, a segregated account of Upsilon Fund, with a corresponding decrease in gross premiums written, as discussed above, as well as an overall reduction in ceded premiums written due to lower levels of retrocessional purchases as a part of our gross-to-net strategy.

Property Net Premiums Written

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Net premiums written	\$ 2,164,484	\$ 1,778,141	\$ 386,343

Net premiums written in our Property segment were \$2.2 billion in the six months ended June 30, 2023, an increase of \$386.3 million, or 21.7%, compared to the six months ended June 30, 2022. The increase in net premiums written is driven by rate improvements on deals written in our catastrophe class of business in the first half of 2023, combined with a reduction in the ceded premiums written, as discussed above. This increase was partially offset by the reduction in gross premiums written in the other property class of business. Included in net premiums written in the first six months of 2023 were net reinstatement premiums of \$2.7 million compared to \$25.9 million in the first six months of 2022, resulting in a decrease in net reinstatement premiums of \$23.2 million compared to the first six months of 2022, primarily within the catastrophe class of business.

Property Underwriting Results

Our Property segment generated underwriting income of \$579.7 million in the six months ended June 30, 2023, compared to \$449.3 million in the six months ended June 30, 2022, an increase in underwriting income of \$130.4 million. In the six months ended June 30, 2023, our Property segment generated a net claims and claim expense ratio of 32.5%, an underwriting expense ratio of 27.4% and a combined ratio of 59.9%, compared to 34.8%, 29.0% and 63.8%, respectively, in the six months ended June 30, 2022.

Impacting the Property segment underwriting result and combined ratio in the six months ended June 30, 2023 were the 2023 Large Loss Events, which resulted in a net negative impact on the Property segment underwriting result of \$147.6 million and added 11.3 percentage points to its combined ratio. In comparison, the six months ended June 30, 2022 was impacted by the 2022 Weather-Related Large Losses, which resulted in a net negative impact on the Property segment underwriting result of \$104.1 million and added 8.8 percentage points to the combined ratio.

The net claims and claim expense ratio of 32.5% is comprised of a current accident year net claims and claim expense ratio of 40.3% and 7.8 percentage points of net favorable development on prior accident years. In comparison, the six months ended June 30, 2022 had a net claims and claim expense ratio of 34.8%, comprised of a current accident year net claims and claim expense ratio of 38.9% and 4.1 percentage points of net favorable development on prior accident years.

The underwriting expense ratio decreased 1.6 percentage points, principally driven by greater operating leverage from the increase in net earned premiums from the catastrophe class of business.

See “Note 6. Reserve for Claims and Claim Expenses” in our “Notes to the Consolidated Financial Statements” for additional information related to the development of prior accident years net claims and claim expenses.

Casualty and Specialty Segment

Below is a summary of the underwriting results and ratios for our Casualty and Specialty segment:

<u>Six months ended June 30,</u> (in thousands, except percentages)	2023	2022	Change
Gross premiums written	\$ 2,735,077	\$ 2,845,774	\$ (110,697)
Net premiums written	\$ 2,295,022	\$ 2,250,692	\$ 44,330
Net premiums earned	\$ 2,019,706	\$ 1,700,636	\$ 319,070
Net claims and claim expenses incurred	1,262,809	1,116,287	146,522
Acquisition expenses	568,877	473,082	95,795
Operational expenses	47,075	43,868	3,207
Underwriting income (loss)	\$ 140,945	\$ 67,399	\$ 73,546
Net claims and claim expenses incurred – current accident year	\$ 1,286,327	\$ 1,125,267	\$ 161,060
Net claims and claim expenses incurred – prior accident years	(23,518)	(8,980)	(14,538)
Net claims and claim expenses incurred – total	\$ 1,262,809	\$ 1,116,287	\$ 146,522
Net claims and claim expense ratio – current accident year	63.7 %	66.2 %	(2.5) pts
Net claims and claim expense ratio – prior accident years	(1.2)%	(0.6)%	(0.6) pts
Net claims and claim expense ratio – calendar year	62.5 %	65.6 %	(3.1) pts
Underwriting expense ratio	30.5 %	30.4 %	0.1 pts
Combined ratio	93.0 %	96.0 %	(3.0) pts

Casualty and Specialty Gross Premiums Written

In the six months ended June 30, 2023, our Casualty and Specialty segment gross premiums written decreased by \$110.7 million, or 3.9%, to \$2.7 billion, compared to \$2.8 billion in the six months ended June 30, 2022, reflecting decreases in casualty classes of business, principally in professional liability, and partially offset by growth in the other specialty class of business. The decrease in gross premiums written principally reflects the lower impact of positive adjustments to premium estimates for business underwritten in prior years.

During the six months ended June 30, 2023, gross premiums written included positive changes in premium estimates of \$98.8 million on business underwritten in 2022 and prior years, compared to the six months ended June 30, 2022, which included \$300.0 million on business underwritten in 2021 and prior years. These changes in premium estimates occurred across all classes of business, but principally in general casualty and professional liability classes, and largely reflect the positive rate environment experienced in recent prior periods.

Casualty and Specialty Ceded Premiums Written

<u>Six months ended June 30,</u> (in thousands)	2023	2022	Change
Ceded premiums written	\$ 440,055	\$ 595,082	\$ (155,027)

Ceded premiums written in our Casualty and Specialty segment decreased by 26.1%, to \$440.1 million, in the six months ended June 30, 2023, compared to \$595.1 million in the six months ended June 30, 2022, primarily driven by the decrease in gross premiums written subject to our retrocessional quota share reinsurance programs, in addition to an overall reduction in our retrocessional purchases as part of our gross-to-net strategy.

Casualty and Specialty Net Premiums Written

Six months ended June 30, (in thousands)	2023	2022	Change
Net premiums written	\$ 2,295,022	\$ 2,250,692	\$ 44,330

Net premiums written in our Casualty and Specialty segment increased by \$44.3 million, or 2.0%, mainly due to the decrease in ceded premiums written.

Casualty and Specialty Underwriting Results

Our Casualty and Specialty segment generated underwriting income of \$140.9 million in the six months ended June 30, 2023, compared to \$67.4 million in the six months ended June 30, 2022. In the six months ended June 30, 2023, our Casualty and Specialty segment generated a net claims and claim expense ratio of 62.5%, an underwriting expense ratio of 30.5% and a combined ratio of 93.0%, compared to 65.6%, 30.4% and 96.0%, respectively, in the six months ended June 30, 2022.

The improvement in the Casualty and Specialty segment combined ratio in the six months ended June 30, 2023 to 93.0% was principally driven by a decrease of 3.1 percentage points in the net claims and claim expense ratio, primarily as a result of lower current accident year attritional losses. Additionally, the current accident year claims and claim expense ratio during the six months ended June 30, 2022 included 1.6 percentage points of loss associated with the Russia-Ukraine War which did not repeat in the six months ended June 30, 2023. During the six months ended June 30, 2023 our Casualty and Specialty segment also experienced net favorable development on prior accident years net claims and claim expenses of \$23.5 million, or 1.2 percentage points, compared to \$9.0 million, or 0.6 percentage points during the six months ended June 30, 2022. The net favorable development during the six months ended June 30, 2023 was primarily driven by reported losses generally coming in lower than expected on attritional net claims and claim expenses from our credit and other specialty lines of business, while the net favorable development during the six months ended June 30, 2022 was driven by our credit lines of business. See "Note 6. Reserve for Claims and Claim Expenses" in our "Notes to the Consolidated Financial Statements" for additional information related to the development of prior accident years net claims and claim expenses.

Fee Income

Six months ended June 30, (in thousands)	2023	2022	Change
Management fee income			
Joint ventures	\$ 58,311	\$ 31,098	\$ 27,213
Structured reinsurance products and other	13,623	13,873	(250)
Managed funds	12,410	12,958	(548)
Total management fee income	84,344	57,929	26,415
Performance fee income			
Joint ventures	14,887	934	13,953
Structured reinsurance products and other	1,558	3,419	(1,861)
Managed funds	664	322	342
Total performance fee income	17,109	4,675	12,434
Total fee income	\$ 101,453	\$ 62,604	\$ 38,849

In the six months ended June 30, 2023, total fee income earned through our third-party capital management activities increased by \$38.8 million, to \$101.5 million, compared to \$62.6 million in the six months ended June 30, 2022, driven by both higher management fee income and higher performance fee income in the six months ended June 30, 2023 compared to the six months ended June 30, 2022.

The increase in management fee income of \$26.4 million reflected increased capital managed at DaVinci, Vermeer, Medici, and Fontana, as well as the recording of management fees in DaVinci that were previously deferred as a result of the weather-related large losses experienced in prior years.

Performance fee income increased \$12.4 million compared to the six months ended June 30, 2022, driven by favorable current year underwriting results.

The fees earned through third-party capital management are principally recorded through redeemable noncontrolling interest, or as an increase to underwriting income, (reduction to underwriting loss), through a decrease in operating expenses or acquisition expenses, as detailed in the table below.

Six months ended June 30, (in thousands)	2023	2022	Change
Underwriting income (loss) - fee income on third-party capital management activities ⁽¹⁾	\$ 21,325	\$ 24,912	\$ (3,587)
Equity in earnings of other ventures	(558)	50	(608)
Net income (loss) attributable to redeemable noncontrolling interest	80,686	37,642	43,044
Total fee income	\$ 101,453	\$ 62,604	\$ 38,849

- (1) Reflects total fee income earned through third-party capital management as well as various joint ventures, managed funds and certain structured retrocession agreements to which we are a party, recorded through underwriting income (loss) as a decrease to operating expenses or acquisition expenses. The \$21.3 million includes \$22.7 million of management fee income, recorded as a reduction to operating expenses and \$(1.4) million of performance fee income recorded as an increase to acquisition expenses (2022 - \$24.9 million, \$24.2 million and \$0.7 million, respectively).

In addition to the \$21.3 million of fee income earned through our third-party capital management activities that was recorded through underwriting income (loss), as detailed above, we also earn additional fee income on certain other underwriting-related activities. These fees, in the aggregate, are recorded as a reduction to operating expenses or acquisition expenses, as applicable. The total fees recorded through underwriting income (loss) are detailed in the table below.

Six months ended June 30, (in thousands)	2023	2022	Change
Underwriting income (loss) - fee income on third-party capital management activities	\$ 21,325	\$ 24,912	\$ (3,587)
Underwriting income (loss) - additional fee income on underwriting-related activities	50,840	46,695	4,145
Total fees recorded through underwriting income (loss)⁽²⁾	\$ 72,165	\$ 71,607	\$ 558
Impact of total fees recorded through underwriting income (loss) on the combined ratio	2.1 %	2.4 %	(0.3) pts

- (2) The \$72.2 million includes \$65.5 million of management fee income, recorded as a reduction to operating expenses and \$6.7 million of performance fee income recorded as a reduction to acquisition expenses (2022 - \$71.6 million, \$58.8 million and \$12.9 million, respectively).

Net Investment Income

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Fixed maturity investments trading	\$ 325,239	\$ 138,964	\$ 186,275
Short term investments	83,181	5,533	77,648
Equity investments trading	6,165	7,270	(1,105)
Other investments			
Catastrophe bonds	88,353	37,595	50,758
Other	45,391	12,446	32,945
Cash and cash equivalents	8,849	(136)	8,985
	557,178	201,672	355,506
Investment expenses	(10,138)	(10,770)	632
Net investment income	\$ 547,040	\$ 190,902	\$ 356,138

Net investment income was \$547.0 million in the six months ended June 30, 2023, compared to \$190.9 million in the six months ended June 30, 2022, an increase of \$356.1 million. The increase was primarily driven by higher interest rates, higher yielding assets in the fixed maturity and short term portfolios as a result of our reinvestment of the portfolio during 2022 and 2023, as well as increased catastrophe bond yields.

Net Realized and Unrealized Gains (Losses) on Investments

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Gross realized gains on fixed maturity investments trading	\$ 28,408	\$ 14,894	\$ 13,514
Gross realized losses on fixed maturity investments trading	(207,385)	(423,200)	215,815
Net realized gains (losses) on fixed maturity investments trading	(178,977)	(408,306)	229,329
Net unrealized gains (losses) on fixed maturity investments trading	172,233	(613,997)	786,230
Net realized and unrealized gains (losses) on fixed maturity investments trading	(6,744)	(1,022,303)	1,015,559
Net realized and unrealized gains (losses) on investments-related derivatives ⁽¹⁾	(52,889)	(106,366)	53,477
Net realized gains (losses) on equity investments	(27,493)	35,572	(63,065)
Net unrealized gains (losses) on equity investments	59,778	(175,773)	235,551
Net realized and unrealized gains (losses) on equity investments	32,285	(140,201)	172,486
Net realized and unrealized gains (losses) on other investments - catastrophe bonds	62,312	(32,921)	95,233
Net realized and unrealized gains (losses) on other investments - other	21,706	(25,333)	47,039
Net realized and unrealized gains (losses) on investments	<u>\$ 56,670</u>	<u>\$ (1,327,124)</u>	<u>\$ 1,383,794</u>

(1) Net realized and unrealized gains (losses) on investment-related derivatives includes fixed maturity investments related derivatives (interest rate futures, interest rate swaps, credit default swaps, total return swaps, and warrants), and equity investments related derivatives (equity futures). See "Note 13. Derivative Instruments" for additional information.

Net realized and unrealized gains on investments were \$56.7 million in the six months ended June 30, 2023, compared to losses of \$1.3 billion in the six months ended June 30, 2022, an improvement of \$1.4 billion. Principally impacting our net realized and unrealized gains on investments in the six months ended June 30, 2023 were:

- net realized and unrealized losses on our fixed maturity investments trading of \$6.7 million compared to losses of \$1.0 billion in the six months ended June 30, 2022, an improvement of \$1.0 billion, principally driven by interest rate increases which were generally lower in the six months ended June 30, 2023 compared to the interest rate increases in the six months ended June 30, 2022;
- net realized and unrealized gains on equity investments of \$32.3 million compared to net losses of \$140.2 million in the six months ended June 30, 2022, an improvement of \$172.5 million. Both the current and comparative equity investment results were in line with wider equity market movements. We reduced our exposure to public equities during the six months ended June 30, 2023, meaning net realized and unrealized gains on equity investments were less prominent in 2023; and
- net realized and unrealized gains on catastrophe bonds of \$62.3 million, compared to net realized and unrealized losses of \$32.9 million in the six months ended June 30, 2022. The net realized and unrealized gains in the six months ended June 30, 2023, and losses in the six months ended June 30, 2022, were each primarily reflected in the Medici portfolio, and predominantly attributable to third party investors through net income (loss) attributable to redeemable noncontrolling interests. Both the current and comparative period results reflected changes in risk spreads in the wider catastrophe bond market.

Net Foreign Exchange Gains (Losses)

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Net foreign exchange gains (losses)	\$ (27,991)	\$ (66,307)	\$ 38,316

In the six months ended June 30, 2023, net foreign exchange losses were \$28.0 million compared to \$66.3 million in the six months ended June 30, 2022. The net foreign exchange losses for the six months ended June 30, 2023 and 2022 were driven by losses attributable to third-party investors in Medici which are allocated through noncontrolling interest, and the impact of certain foreign exchange exposures related to our underwriting activities in the second quarter of 2022.

Equity in Earnings of Other Ventures

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Tower Hill Companies	\$ 11,646	\$ (7,083)	\$ 18,729
Top Layer Re	6,561	2,569	3,992
Other	(977)	5,507	(6,484)
Total equity in earnings (losses) of other ventures	\$ 17,230	\$ 993	\$ 16,237

Earnings from our investments in other ventures was \$17.2 million in the six months ended June 30, 2023, compared to \$1.0 million in the six months ended June 30, 2022, an increase of \$16.2 million. The increase was principally driven by increased profitability of our equity investments in the Tower Hill Companies and Top Layer Re.

Corporate Expenses

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Corporate expenses	\$ 36,214	\$ 24,854	\$ 11,360

Corporate expenses increased \$11.4 million to \$36.2 million, in the six months ended June 30, 2023, compared to \$24.9 million in the six months ended June 30, 2022. The increase was primarily due to expenses associated with the Validus Acquisition.

Income Tax Benefit (Expense)

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Income tax benefit (expense)	\$ (34,844)	\$ 67,241	\$ (102,085)

In the six months ended June 30, 2023, we recognized an income tax expense of \$34.8 million, compared to an income tax benefit of \$67.2 million in the six months ended June 30, 2022. The income tax expense was primarily driven by operating income in our taxable jurisdictions for the six months ended June 30, 2023, compared to the income tax benefit for the six months ended June 30, 2022, which was driven by investment losses and lower operating income primarily in our U.S. operations.

Net Income (Loss) Attributable to Redeemable Noncontrolling Interests

<u>Six months ended June 30,</u> (in thousands)	<u>2023</u>	<u>2022</u>	<u>Change</u>
Redeemable noncontrolling interest - DaVinci	\$ 225,609	\$ 33,499	\$ 192,110
Redeemable noncontrolling interest - Medici	107,259	(32,174)	139,433
Redeemable noncontrolling interest - Vermeer	99,568	41,635	57,933
Redeemable noncontrolling interest - Fontana	9,855	(5,541)	15,396
Net income (loss) attributable to redeemable noncontrolling interests	<u>\$ 442,291</u>	<u>\$ 37,419</u>	<u>\$ 404,872</u>

Our net income attributable to redeemable noncontrolling interests was \$442.3 million compared to \$37.4 million in the six months ended June 30, 2022, an increase of \$404.9 million. The increase was primarily driven by the following:

- DaVinci, which had net income in the six months ended June 30, 2023, primarily resulting from lower realized and unrealized losses on investments in the six months ended June 30, 2023, compared to the prior year, driven by the decrease in interest rates discussed previously, higher net investment income, as well as improved underwriting results in the six months ended June 30, 2023.
- Medici, which had net income in the six months ended June 30, 2023 due to realized and unrealized gains on its catastrophe bond portfolio, in addition to increased net investment income. This compares to net losses in the six months ended June 30, 2022, driven by foreign exchange losses, which were fully attributable to noncontrolling interests;
- Vermeer, which had higher net income in the six months ended June 30, 2023 compared to the six months ended June 30, 2022, primarily resulting from higher net investment income and improved underwriting results; and
- Fontana, which had higher net income in the six months ended June 30, 2023, primarily due to increased net investment income driven by higher yielding assets, as well as recognizing a full six months of results in 2023 compared to only three months in 2022, due to the launch date of Fontana.

FINANCIAL CONDITION, LIQUIDITY AND CAPITAL RESOURCES

Financial Condition

As a Bermuda-domiciled holding company, RenaissanceRe has limited operations of its own. Its assets consist primarily of investments in subsidiaries and cash and securities in amounts which fluctuate over time. We therefore rely on dividends and distributions (and other statutorily permissible payments) from our subsidiaries, investment income and fee income to meet our liquidity requirements, which primarily include making principal and interest payments on our debt and dividend payments to our preference and common shareholders.

The payment of dividends by our subsidiaries is, under certain circumstances, limited by the applicable laws and regulations in the various jurisdictions in which our subsidiaries operate. In addition, insurance laws require our insurance subsidiaries to maintain certain measures of solvency and liquidity. We believe that each of our insurance subsidiaries and branches exceeded the minimum solvency, capital and surplus requirements in their applicable jurisdictions at June 30, 2023. Certain of our subsidiaries and branches are required to file FCRs with their regulators, which provide details on solvency and financial performance. Where required, these FCRs will be posted on our website. The regulations governing our and our principal operating subsidiaries' ability to pay dividends and to maintain certain measures of solvency and liquidity, and requirements to file FCRs are discussed in detail in "Part I, Item 1. Business, Regulation" and "Note 17. Statutory Requirements" in our "Notes to the Consolidated Financial Statements" in our Form 10-K for the year ended December 31, 2022.

Liquidity and Cash Flows

Holding Company Liquidity

RenaissanceRe's principal uses of liquidity are: (1) common share related transactions including dividend payments to our common shareholders and common share repurchases, (2) preference share related transactions including dividend payments to our preference shareholders and preference share redemptions, (3) interest and principal payments on debt, (4) capital investments in our subsidiaries, (5) acquisition of, or investments in, new or existing companies or books of business of other companies, such as our planned acquisition of Validus, and (6) certain corporate and operating expenses.

Other than as discussed below under "Impact of Validus Acquisition on Liquidity and Capital Resources," we attempt to structure our organization in a way that facilitates efficient capital movements between RenaissanceRe and our operating subsidiaries and to ensure that adequate liquidity is available when required, giving consideration to applicable laws and regulations, and the domiciliary location of sources of liquidity and related obligations. For example, our internal investment structures and cash pooling arrangements among the Company and certain of our subsidiaries help to efficiently facilitate capital and liquidity movements.

In the aggregate, our principal operating subsidiaries have historically produced sufficient cash flows to meet their expected claims payments and operational expenses and to provide dividend payments to us. In addition, our subsidiaries maintain a concentration of investments in high quality liquid securities, which management believes will provide additional liquidity for extraordinary claims payments should the need arise. However, in some circumstances, RenaissanceRe may determine it is necessary or advisable to contribute capital to our subsidiaries, or may be contractually required to contribute capital to our joint ventures or managed funds. For example, in 2022, RenaissanceRe contributed capital to RenaissanceRe Specialty U.S. to support growth in premiums. In addition, from time to time we invest in new managed joint ventures or managed funds, increase our investments in certain of our managed joint ventures or managed funds and contribute cash to investment subsidiaries. For instance, effective April 1, 2022, RenaissanceRe launched Fontana, an innovative joint venture dedicated to writing Casualty and Specialty risks. In certain instances, we may be required to make capital contributions to our subsidiaries or joint ventures or managed funds, for example, Renaissance Reinsurance is obligated to make a mandatory capital contribution of up to \$50.0 million in the event that a loss reduces Top Layer's capital below a specified level.

Sources of Liquidity

Historically, cash receipts from operations, consisting primarily of premiums, investment income and fee income, have provided sufficient funds to pay the losses and operating expenses incurred by our subsidiaries and to fund dividends and distributions to RenaissanceRe. Other potential sources of liquidity include borrowings under our credit facilities and issuances of securities.

The premiums received by our operating subsidiaries are generally received months or even years before losses are paid under the policies related to such premiums. Premiums and acquisition expenses generally are received within the first two years of inception of a contract, while operating expenses are generally paid within a year of being incurred. It generally takes much longer for net claims and claims expenses incurred to be reported and ultimately settled, requiring the establishment of reserves for claims and claim expenses and losses recoverable. Therefore, the amount of net claims paid in any one year is not necessarily related to the amount of net claims and claims expenses incurred in that year, as reported in the consolidated statement of operations.

Other than as discussed below under “Impact of Validus Acquisition on Liquidity and Capital Resources,” we expect that our liquidity needs for the next 12 months will be met by our cash receipts from operations. However, as a result of a combination of market conditions, turnover of our investment portfolios and changes in investment yields, and the nature of our business where a large portion of the coverages we provide can produce losses of high severity and low frequency, future cash flows from operating activities cannot be accurately predicted and may fluctuate significantly between individual quarters and years. In addition, due to the magnitude and complexity of certain large loss events, meaningful uncertainty remains regarding losses from these events and our actual ultimate net losses from these events may vary materially from preliminary estimates, which would impact our cash flows from operations.

Our “shelf” registration statement on Form S-3 under the Securities Act allows for the public offering of various types of securities, including common shares, preference shares and debt securities, which provides a source of liquidity. Because we are a “well-known seasoned issuer” as defined by the rules promulgated under the Securities Act, we are also eligible to file additional automatically effective registration statements on Form S-3 in the future for the potential offering and sale of additional debt and equity securities.

Credit Facilities, Trusts and Other Collateral Arrangements

We also maintain various other arrangements that allow us to access liquidity and satisfy collateral requirements, including revolving credit facilities, letter of credit facilities, and regulatory trusts, as well as other types of trust and collateral arrangements. Regulatory and other requirements to post collateral to support our reinsurance obligations could impact our liquidity. For example, many jurisdictions in the U.S. do not permit insurance companies to take credit for reinsurance obtained from unlicensed or non-admitted insurers on their statutory financial statements unless security is posted, so our contracts generally require us to post a letter of credit or provide other security (such as through a multi-beneficiary reinsurance trust). However, certain of our subsidiaries qualify as certified reinsurers or reciprocal reinsurers in one or more U.S. states, which has, and may continue to, reduce the amount of collateral that we are required to post. In addition, if we were to fail to comply with certain covenants in our debt agreements, we may have to pledge additional collateral.

Letter of Credit and Revolving Credit Facilities

We and certain of our subsidiaries, joint ventures, and managed funds maintain secured and unsecured revolving credit facilities and letter of credit facilities that provide liquidity and allow us to satisfy certain collateral requirements. The outstanding amounts drawn under each of our significant credit facilities are set forth below:

At June 30, 2023 (in thousands)	Issued or Drawn
Revolving Credit Facility ⁽¹⁾	\$ —
Medici Revolving Credit Facility ⁽²⁾	—
Bilateral Letter of Credit Facilities	
Secured	395,583
Unsecured	497,308
Funds at Lloyd's Letter of Credit Facility	275,000
	\$ 1,167,891

(1) At June 30, 2023, no amounts were issued or drawn under this facility.

(2) RenaissanceRe owns a noncontrolling economic interest in Medici. Because RenaissanceRe controls all of Medici's outstanding issued voting shares, the financial statements of Medici are included in RenaissanceRe's consolidated financial statements. However, RenaissanceRe does not guarantee or provide credit support for Medici, and RenaissanceRe's financial exposure to Medici is limited to its investment in Medici's shares and counterparty credit risk arising from reinsurance transactions. At June 30, 2023, no amounts were issued or drawn under this facility.

Refer to "Note 7. Debt and Credit Facilities" in our "Notes to the Consolidated Financial Statements" for additional information related to our significant debt and credit facilities.

Funds at Lloyd's

As a member of Lloyd's, the underwriting capacity, or stamp capacity, of Syndicate 1458 must be supported by providing a deposit, the FAL, in the form of cash, securities or letters of credit. At June 30, 2023, the FAL required to support the underwriting activities at Lloyd's through Syndicate 1458 was £824.8 million (December 31, 2022 - £986.8 million). Actual FAL posted for Syndicate 1458 at June 30, 2023 by RenaissanceRe Corporate Capital (UK) Limited was \$912.4 million (December 31, 2022 - \$1.0 billion), supported by a \$275.0 million letter of credit and a \$637.4 million deposit of cash and fixed maturity securities (December 31, 2022 - \$275.0 million and \$737.6 million, respectively). Refer to "Note 7. Debt and Credit Facilities" in our "Notes to the Consolidated Financial Statements" for additional information related to this letter of credit facility.

Multi-Beneficiary Reinsurance Trusts, Multi-Beneficiary Reduced Collateral Reinsurance Trusts

Renaissance Reinsurance, DaVinci Reinsurance and RREAG, use multi-beneficiary reinsurance trusts and/or multi-beneficiary reduced collateral reinsurance trusts to collateralize reinsurance liabilities. As described below, as of June 30, 2023, all of these trusts were funded in accordance with the relevant regulatory

thresholds. However, assets held in these trusts may exceed the amount required under U.S. state regulations. Refer to “Note 17. Statutory Requirements” in our “Notes to the Consolidated Financial Statements” in our Form 10-K for the year ended December 31, 2022 for additional information on our multi-beneficiary reinsurance trusts and multi-beneficiary reduced collateral reinsurance trusts.

Assets held under trust at June 30, 2023 with respect to our multi-beneficiary reinsurance trusts totaled \$630.6 million and \$254.3 million for Renaissance Reinsurance and DaVinci, respectively (December 31, 2022 - \$633.7 million and \$255.6 million, respectively), compared to the minimum amount required under U.S. state regulations of \$425.8 million and \$150.5 million, respectively, at June 30, 2023 (December 31, 2022 - \$511.4 million and \$200.1 million, respectively).

Assets held under trust at June 30, 2023 with respect to our multi-beneficiary reduced collateral reinsurance trusts totaled \$175.7 million, \$209.3 million, and \$105.2 million for Renaissance Reinsurance, DaVinci and RREAG respectively (December 31, 2022 - \$172.7 million, \$211.0 million and \$106.5 million respectively), compared to the minimum amount required under U.S. state regulations of \$127.1 million, \$156.8 million and \$81.0 million respectively (December 31, 2022 - \$146.1 million, \$174.7 million and \$98.3 million respectively).

Contractual Obligations

In assessing our liquidity requirements and cash needs, we also consider contractual obligations to which we are a party. These contractual obligations are summarized in our Form 10-K for the year ended December 31, 2022. As of June 30, 2023, there were no material changes in our contractual obligations as disclosed in the table of contractual obligations and related footnotes included in our Form 10-K for the year ended December 31, 2022, except as described below (including under “Impact of Validus Acquisition on Liquidity and Capital Resources”).

On June 5, 2023, we issued \$750.0 million of our 5.750% Senior Notes due 2033. See “Note 15. Acquisition of Validus” in our “Notes to the Consolidated Financial Statements” and below under the heading “Impact of Validus Acquisition on Liquidity and Capital Resources” for additional information regarding the Validus Acquisition.

Cash Flows

<u>Six months ended June 30,</u> (in thousands)	2023	2022
Net cash provided by (used in) operating activities	\$ 626,674	\$ 269,169
Net cash provided by (used in) investing activities	(3,181,266)	(955,534)
Net cash provided by (used in) financing activities	2,301,798	206,353
Effect of exchange rate changes on foreign currency cash	2,390	19,088
Net increase (decrease) in cash and cash equivalents	(250,404)	(460,924)
Cash and cash equivalents, beginning of period	1,194,339	1,859,019
Cash and cash equivalents, end of period	<u>\$ 943,935</u>	<u>\$ 1,398,095</u>

2023

During the six months ended June 30, 2023, our cash and cash equivalents decreased by \$250.4 million, to \$0.9 billion at June 30, 2023, compared to \$1.2 billion at December 31, 2022.

Cash flows provided by operating activities. Cash flows provided by operating activities during the six months ended June 30, 2023 were \$626.7 million, compared to \$269.2 million during the six months ended June 30, 2022. Cash flows provided by operating activities during the six months ended June 30, 2023 were primarily the result of certain adjustments to reconcile our net income of \$1.2 billion to net cash provided by operating activities, including:

- an increase in unearned premiums of \$1.2 billion due to gross premiums written across both our Property and Casualty and Specialty segments;

- an increase in reserve for claims and claim expenses of \$245.6 million primarily resulting from an increase in reserves within our Casualty and Specialty segment largely driven by additional attritional reserves as a result of the application of our reserving loss ratios to the earned premium in the six months ended June 30, 2023, partially offset by a decrease in reserves in our Property segment due to prior year favorable development and paid losses during the six months ended June 30, 2023; partially offset by
- an increase in premiums receivable of \$1.4 billion due to the timing of receipts and an increase in our gross premiums written;
- an increase of \$165.8 million in our prepaid reinsurance premiums due to the timing of renewals of our ceded program;
- a decrease in reinsurance balances payable of \$147.9 million, principally driven by the timing of payments related to underwriting activity and the redemption of capital from Upsilon RFO;
- an increase in deferred acquisition costs of \$129.3 million, following the increase in unearned premiums; and
- net realized and unrealized gains on investments of \$109.6 million primarily driven by unrealized mark-to-market gains resulting from the decrease in interest rates.

Cash flows used in investing activities. During the six months ended June 30, 2023, our cash flows used in investing activities were \$3.2 billion, principally reflecting net purchases of fixed maturity investments trading of \$1.6 billion, short term investments of \$1.7 billion, and other investments of \$490.4 million, partially offset by cash flows from net sales of equity investments trading of \$546.4 million. The net purchases of fixed maturity investments trading was primarily funded by cash flows provided by operating activities, as described above, whereas the net purchase of other investments during the six months ended June 30, 2023, was primarily driven by an increased allocation to catastrophe bonds and fund investments.

Cash flows provided by financing activities. Our cash flows provided by financing activities in the six months ended June 30, 2023 were \$2.3 billion, and were principally the result of:

- the issuance of 7,245,000 of our common shares in an underwritten public offering at a public offering price of \$192.00 per share. The total net proceeds from the offering were \$1,352.6 million;
- the issuance of \$750.0 million of 5.750% Senior Notes due June 5, 2033, with net proceeds from the offering of \$741.6 million;
- net inflows of \$310.1 million primarily related to net third-party redeemable noncontrolling interest share transactions in Medici and DaVinci; partially offset by
- dividends paid on our common and preference shares of \$36.0 million and \$17.7 million, respectively; and
- repayment of debt of \$30.0 million related to the Medici Revolving Credit Facility.

2022

During the six months ended June 30, 2022, our cash and cash equivalents decreased by \$460.9 million, to \$1.4 billion at June 30, 2022, compared to \$1.9 billion at December 31, 2021.

Cash flows provided by operating activities. Cash flows provided by operating activities during the six months ended June 30, 2022 were \$269.2 million, compared to \$335.2 million during the six months ended June 30, 2021. Cash flows provided by operating activities during the six months ended June 30, 2022 were primarily the result of certain adjustments to reconcile our net loss of \$664.2 million to net cash provided by operating activities, including:

- an increase in unearned premiums of \$1.6 billion due to the growth in gross premiums written across both our Property and Casualty and Specialty segments;
- net realized and unrealized losses on investments of \$1.2 billion primarily driven by unrealized mark-to-market losses resulting from the significant increase in interest rates;

- an increase in reinsurance balances payable of \$524.9 million principally driven by the issuance of non-voting preference shares to investors in Upsilon RFO, which are accounted for as prospective reinsurance and included in reinsurance balances payable on our consolidated balance sheet. See “Note 9. Variable Interest Entities” in our “Notes to the Consolidated Financial Statements” for additional information related to Upsilon RFO’s non-voting preference shares; partially offset by
- an increase in premiums receivable of \$1.6 billion due to the timing of receipts and increase in our gross premiums written;
- an increase of \$499.8 million in our prepaid reinsurance premiums due to the timing of renewals of our ceded program; and
- a decrease in other operating cash flows of \$265.4 million primarily reflecting subscriptions received in advance of the issuance of Medici’s non-voting preference shares effective April 1, 2022, which were recorded in other liabilities at March 31, 2021, and an increase in the Company’s deferred tax asset. See “Note 8. Noncontrolling Interests” in our “Notes to the Consolidated Financial Statements” for additional information related to Medici’s non-voting preference shares.

Cash flows used in investing activities. During the six months ended June 30, 2022, our cash flows used in investing activities were \$955.5 million, principally reflecting net purchases of fixed maturity investments trading of \$1.2 billion, equity investments trading of \$286.4 million, and other investments of \$397.5 million, partially offset by cash flow from net sales of short term investments of \$939.7 million. The net purchases of fixed maturity investments trading was primarily funded by cash flows provided by operating activities, as described above, whereas the net purchase of other investments during the six months ended June 30, 2022, was primarily driven by an increased allocation to catastrophe bonds and fund investments.

Cash flows used in financing activities. Our cash flows used in financing activities in the six months ended June 30, 2022 were \$206.4 million, and were principally the result of:

- the repurchase of 874.9 thousand of our common shares in open market transactions at an aggregate cost of \$137.5 million and an average price of \$157.19 per common share;
- dividends paid on our common and preference shares of \$32.4 million and \$17.8 million, respectively; and partially offset by
- net inflows of \$408.8 million primarily related to net third-party redeemable noncontrolling interest share transactions in Medici, DaVinci and Fontana.

Capital Resources

We monitor our capital adequacy on a regular basis and seek to adjust our capital according to the needs of our business. In particular, we require capital sufficient to meet or exceed the capital adequacy ratios established by rating agencies for maintenance of appropriate financial strength ratings, the capital adequacy tests performed by regulatory authorities and the capital requirements under our credit facilities. From time to time, rating agencies may make changes in their capital models and rating methodologies, which could increase the amount of capital required to support our ratings. We may seek to raise additional capital or return capital to our shareholders through common share repurchases and cash dividends (or a combination of such methods). In the normal course of our operations, we may from time to time evaluate additional share or debt issuances given prevailing market conditions and capital management strategies, including for our operating subsidiaries, joint ventures and managed funds. In addition, as noted above, we enter into agreements with financial institutions to obtain letter of credit facilities for the benefit of our operating subsidiaries and certain of our joint ventures and managed funds in their reinsurance and insurance business.

Our total shareholders' equity attributable to RenaissanceRe and total debt was as follows:

(in thousands)	At June 30, 2023	At December 31, 2022	Change
Common shareholders' equity	\$ 6,652,813	\$ 4,575,274	\$ 2,077,539
Preference shares	750,000	750,000	—
Total shareholders' equity attributable to RenaissanceRe	7,402,813	5,325,274	2,077,539
5.750% Senior Notes due 2033	740,620	—	740,620
3.600% Senior Notes due 2029	394,676	394,221	455
3.450% Senior Notes due 2027	298,022	297,775	247
3.700% Senior Notes due 2025	299,351	299,168	183
4.750% Senior Notes due 2025 (DaVinci) ⁽¹⁾	149,432	149,278	154
Total senior notes	1,882,101	1,140,442	741,659
Medici Revolving Credit Facility ⁽²⁾	—	30,000	(30,000)
Total debt	\$ 1,882,101	\$ 1,170,442	\$ 711,659

- (1) RenaissanceRe owns a noncontrolling economic interest in its joint venture DaVinci. Because RenaissanceRe controls a majority of DaVinci's issued voting shares, the consolidated financial statements of DaVinci are included in the consolidated financial statements of RenaissanceRe. However, RenaissanceRe does not guarantee or provide credit support for DaVinci and RenaissanceRe's financial exposure to DaVinci is limited to its investment in DaVinci's shares and counterparty credit risk arising from reinsurance transactions.
- (2) RenaissanceRe owns a noncontrolling economic interest in Medici. Because RenaissanceRe controls all of Medici's outstanding issued voting shares, the financial statements of Medici are included in RenaissanceRe's consolidated financial statements. However, RenaissanceRe does not guarantee or provide credit support for Medici, and RenaissanceRe's financial exposure to Medici is limited to its investment in Medici's shares and counterparty credit risk arising from reinsurance transactions. At June 30, 2023, no amounts were issued or drawn under this facility.

Our shareholders' equity attributable to RenaissanceRe increased \$2.1 billion during the six months ended June 30, 2023 principally as a result of:

- the sale of 7,245,000 common shares at the public offering price of \$192.00 per share for total net proceeds of approximately \$1,352.0 million, which are intended to be used to fund a portion of the cash consideration for the previously announced Validus Acquisition, and to pay related costs and expenses, and for general corporate purposes, and
- our comprehensive income attributable to RenaissanceRe of \$774.2 million; partially offset by
- \$36.0 million and \$17.7 million of dividends on our common and preference shares, respectively.

Our total debt increased by \$711.7 million during the six months ended June 30, 2023 principally as a result of the issuance of \$750.0 million of 5.750% Senior Notes due 2033. The net proceeds of approximately

\$741.0 million are intended to be used to fund a portion of the cash consideration for the previously announced Validus Acquisition, and to pay related costs and expenses, and for general corporate purposes. See “Note 15. Acquisition of Validus” in our “Notes to the Consolidated Financial Statements” for additional information regarding the Validus Acquisition. The increase from the net proceeds was partially offset by the repayment of the Medici Revolving Credit Facility of \$30.0 million during the six months ended June 30, 2023.

For additional information related to the terms of our debt and significant credit facilities, see “Note 7. Debt and Credit Facilities” in our “Notes to the Consolidated Financial Statements” in this Form 10-Q and “Note 8. Debt and Credit Facilities” in our “Notes to the Consolidated Financial Statements” in our Form 10-K for the year ended December 31, 2022. See “Note 10. Shareholders’ Equity” in our “Notes to the Consolidated Financial Statements” in this Form 10-Q and “Note 11. Shareholders’ Equity” in our “Notes to the Consolidated Financial Statements” in our Form 10-K for the year ended December 31, 2022 for additional information related to our common and preference shares.

Impact of Validus Acquisition on Liquidity and Capital Resources

The Validus Acquisition is expected to close in the fourth quarter of 2023, subject to the closing conditions set forth in the Stock Purchase Agreement, including receipt of required regulatory approvals. There can be no assurance that the Validus Acquisition will occur.

The aggregate consideration for the transaction is expected to be approximately \$2.985 billion, comprised of cash consideration and the issuance of common shares, each in an amount to be determined as set forth in the Stock Purchase Agreement. We anticipate funding the cash consideration to be paid by RenaissanceRe from available cash resources and the liquidation of certain of our fixed maturity investments trading. We expect to fund a portion of the cash consideration with the net proceeds received of approximately \$1,352.0 million from the equity offering completed on May 26, 2023, and the net proceeds received of approximately \$741.0 million from the offering of 5.750% Senior Notes due 2033 completed on June 5, 2023. The proceeds of the equity offering and Senior Notes are invested in U.S. Treasuries and short term investments, and we plan to convert these investments to cash around the time of the closing of the Validus Acquisition to fund the total cash consideration equal to approximately \$2.735 billion. Additionally, subject to certain regulatory redemption requirements, if (i) the Validus Acquisition is not consummated on or before the specified mandatory redemption end date, or (ii) we notify the trustee that we will not pursue the consummation of the Validus Acquisition, we will be required to redeem the 5.750% Senior Notes due 2033 then outstanding at a redemption price equal to 101% of the principal amount of the notes to be redeemed plus accrued and unpaid interest to, but excluding, the special mandatory redemption date.

We incurred \$11.3 million of corporate expenses associated with the Validus Acquisition in the second quarter of 2023 and expect to incur additional costs and expenses associated with the Validus Acquisition over the course of 2023. These additional one-time costs may be significant, and it is possible that our ultimate costs will exceed our current estimates.

Following the close of the transaction, we anticipate that our operating subsidiaries will have adequate capital resources and sufficient cash flows to meet their expected claims payments and operational expenses and to provide dividend payments to RenaissanceRe and that we will have adequate capital resources, or access to capital resources, to meet our obligations, including dividend payments to our common and preferred shareholders, interest payments on our senior notes and other liabilities, as they come due.

See “Note 15. Acquisition of Validus” in our “Notes to the Consolidated Financial Statements” for additional information regarding the Validus Stock Purchase.

Reserve for Claims and Claim Expenses

We believe the most significant accounting judgment made by management is our estimate of claims and claim expense reserves. Claims and claim expense reserves represent estimates, including actuarial and statistical projections at a given point in time, of the ultimate settlement and administration costs for unpaid claims and claim expenses arising from the insurance and reinsurance contracts we sell. Our actual net

claims and claim expenses paid will differ, perhaps materially, from the estimates reflected in our financial statements, which may adversely impact our financial condition, liquidity and capital resources.

Refer to “Note 7. Reserve for Claims and Claim Expenses” in our “Notes to the Consolidated Financial Statements” in our Form 10-K for the year ended December 31, 2022 and “Note 6. Reserve for Claims and Claim Expenses” included herein for more information on the risks we insure and reinsure, the reserving techniques, assumptions and processes we follow to estimate our claims and claim expense reserves, prior year development of the reserve for claims and claim expenses, analysis of our incurred and paid claims development and claims duration information for each of our Property and Casualty and Specialty segments. In addition, refer to “Part II, Item 7. Management’s Discussion and Analysis of Financial Condition and Results of Operations, Summary of Critical Accounting Estimates, Claims and Claim Expense Reserves” in our Form 10-K for the year ended December 31, 2022 for more information on the reserving techniques, assumptions and processes we follow to estimate our claims and claim expense reserves, our current estimates versus our initial estimates of our claims reserves, and sensitivity analysis for each of our Property and Casualty and Specialty segments.

Investments

The table below shows our invested assets:

	June 30, 2023		December 31, 2022		Change			
(in thousands, except percentages)								
U.S. treasuries	\$	8,592,242	33.6 %	\$	7,180,129	32.3 %	\$	1,412,113
Corporate ⁽¹⁾		4,371,407	17.1 %		4,390,568	19.8 %		(19,161)
Agencies		476,476	1.9 %		395,149	1.8 %		81,327
Non-U.S. government		401,743	1.6 %		383,838	1.7 %		17,905
Residential mortgage-backed		788,256	3.1 %		710,429	3.2 %		77,827
Commercial mortgage-backed		209,661	0.8 %		213,987	1.0 %		(4,326)
Asset-backed		1,048,779	4.1 %		1,077,302	4.8 %		(28,523)
Total fixed maturity investments, at fair value		15,888,564	62.2 %		14,351,402	64.6 %		1,537,162
Short term investments, at fair value		6,373,969	25.0 %		4,669,272	21.0 %		1,704,697
Equity investments, at fair value		93,058	0.4 %		625,058	2.8 %		(532,000)
Catastrophe bonds		1,679,184	6.6 %		1,241,468	5.6 %		437,716
Fund investments		1,241,347	4.9 %		1,086,706	4.9 %		154,641
Term loans		100,000	0.4 %		100,000	0.5 %		—
Direct private equity investments		71,155	0.3 %		66,780	0.3 %		4,375
Total other investments, at fair value		3,091,686	12.2 %		2,494,954	11.2 %		596,732
Investments in other ventures, under equity method		89,505	0.2 %		79,750	0.3 %		9,755
Total investments	\$	25,536,782	100.0 %	\$	22,220,436	100.0 %	\$	3,316,346

(1) Corporate fixed maturity investments include non-U.S. government-backed corporate fixed maturity investments.

We structure our investment portfolio to emphasize the preservation of capital and the availability of liquidity to meet our claims obligations, to be well diversified across market sectors, and to generate relatively attractive returns on a risk-adjusted basis over time. Notwithstanding the foregoing, our investments are subject to market-wide risks and fluctuations, as well as to risks inherent in particular securities. For additional information regarding our investments and the fair value measurement of our investments refer to "Note 3. Investments" and "Note 4. Fair Value Measurements" in our "Notes to the Consolidated Financial Statements."

As the reinsurance coverages we sell include substantial protection for damages resulting from natural and man-made catastrophes, as well as for potentially large casualty and specialty exposures, we expect, from time to time, to become liable for substantial claim payments on short notice. Accordingly, our investment portfolio as a whole is structured to seek to preserve capital and provide a high level of liquidity, which means that the large majority of our investments are highly rated fixed income securities, including U.S. treasuries, agencies, highly rated sovereign and supranational securities, high-grade corporate securities and mortgage-backed and asset-backed securities. We also have an allocation to publicly traded equities reflected on our consolidated balance sheet as equity investments and an allocation to other investments (including catastrophe bonds, fund investments, term loans and direct private equity investments).

Other Investments

The table below shows our portfolio of other investments:

(in thousands)	June 30, 2023	December 31, 2022	Change
Catastrophe bonds	\$ 1,679,184	\$ 1,241,468	\$ 437,716
Fund investments	1,241,347	1,086,706	154,641
Term loans	100,000	100,000	—
Direct private equity investments	71,155	66,780	4,375
Total other investments	<u>\$ 3,091,686</u>	<u>\$ 2,494,954</u>	<u>\$ 596,732</u>

We account for our other investments at fair value in accordance with FASB ASC Topic *Financial Instruments*. The fair value of our fund investments, which include private equity funds, private credit funds and hedge funds, is recorded on our consolidated balance sheet in other investments, and is generally established on the basis of the net asset value per share (or its equivalent), determined by the managers of these investments in accordance with the applicable governing documents. Many of our fund investments are subject to restrictions on redemptions and sales which limit our ability to liquidate these investments in the short term.

Our fund managers and their fund administrators are generally unable to provide final fund valuations as of our current reporting date. We typically experience a reporting lag to receive a final net asset value report of one month for our hedge funds and three months for both private equity funds and private credit funds, although we have occasionally experienced delays of up to six months, particularly at year end. In circumstances where there is a reporting lag, we estimate the fair value of these funds by starting with the prior month or quarter-end fund valuation, adjusting these valuations for actual capital calls, redemptions or distributions, as well as the impact of changes in foreign currency exchange rates, and then estimating the return for the current period. This principally includes using preliminary estimates reported to us by our fund managers where available, and estimating returns based on the performance of broad market indices, or other valuation methods. Actual final fund valuations may differ, perhaps materially, from our estimates and these differences are recorded in our consolidated statement of operations in the period in which they are reported to us as a change in estimate. A net loss of \$2.8 million is recorded for the six months ended June 30, 2023 (2022 - net income of \$27.6 million for the six months ended June 30, 2022), representing the change in estimate during the period related to the difference between our estimate recorded on December 31, 2022 (2022 - December 31, 2021), due to the lag in reporting discussed above, and the actual amount reported in the final net asset values provided by our fund managers in the current year.

Our estimate of the fair value of catastrophe bonds is based on quoted market prices, or when such prices are not available, by reference to broker or underwriter bid indications. Refer to "Note 4. Fair Value Measurements" in our "Notes to the Consolidated Financial Statements" for additional information regarding the fair value measurement of our investments.

We have committed capital to fund investments, term loans, direct private equity investments and investments in other ventures of \$3.0 billion, of which \$1.8 billion has been contributed at June 30, 2023 (December 31, 2022 - \$2.9 billion and \$1.7 billion, respectively). Our remaining commitments to these investments at June 30, 2023 totaled \$1.2 billion (December 31, 2022 - \$1.2 billion). In the future, we may enter into additional commitments in respect of these investments or individual portfolio company investment opportunities.

Ratings

Financial strength ratings are important to the competitive position of reinsurance and insurance companies. We have received high long-term issuer credit and financial strength ratings and scores from A.M. Best, S&P, Moody's and Fitch as applicable. These ratings represent independent opinions of an insurer's financial strength, operating performance and ability to meet policyholder obligations, and are not an evaluation directed toward the protection of investors or a recommendation to buy, sell or hold any of our securities. Rating organizations continually review the financial positions of our principal operating subsidiaries and joint ventures and ratings may be revised or revoked by the agencies which issue them. Additionally, rating organizations may change their rating methodology, which could have a material impact on our financial strength ratings.

In addition, S&P and A.M. Best assess companies' ERM practices, which is an opinion on the many critical dimensions of risk that determine overall creditworthiness. RenaissanceRe has been assigned an ERM score of "Very Strong" from each of these agencies, which is the highest ERM score assigned.

The ratings of our principal operating subsidiaries and joint ventures and the ERM score of RenaissanceRe as of July 24, 2023 are presented below.

	A.M. Best (1)	S&P (2)	Moody's (3)	Fitch (4)
Renaissance Reinsurance Ltd.	A+	A+	A1	A+
DaVinci Reinsurance Ltd.	A	A+	A3	—
Fontana Reinsurance Ltd.	A	—	—	—
Fontana Reinsurance U.S. Ltd.	A	—	—	—
Renaissance Reinsurance of Europe Unlimited Company	A+	A+	—	—
Renaissance Reinsurance U.S. Inc.	A+	A+	—	—
RenaissanceRe Europe AG	A+	A+	—	—
RenaissanceRe Specialty U.S. Ltd.	A+	A+	—	—
Top Layer Reinsurance Ltd.	A+	AA	—	—
Vermeer Reinsurance Ltd.	A	—	—	—
RenaissanceRe Syndicate 1458	—	—	—	—
Lloyd's Overall Market Rating	A	A+	—	AA-
RenaissanceRe ERM Score	Very Strong	Very Strong	—	—

- (1) The A.M. Best ratings for our principal operating subsidiaries and joint ventures represent the insurer's financial strength rating. The Lloyd's Overall Market Rating represents RenaissanceRe Syndicate 1458's financial strength rating. RenaissanceRe has been assigned a "Very Strong" ERM score by A.M. Best. On May 23, 2023, AM Best commented that it did not expect the announced Validus Acquisition to result in any immediate changes to RenaissanceRe's credit ratings.
- (2) The S&P ratings for our principal operating subsidiaries and joint ventures represent the insurer's financial strength rating and the issuer's long-term issuer credit rating. The Lloyd's Overall Market Rating represents RenaissanceRe Syndicate 1458's financial strength rating. RenaissanceRe has been assigned a "Very Strong" ERM score by S&P. On May 23, 2023, S&P affirmed RenaissanceRe's ratings following the announcement of the Validus Acquisition.
- (3) The Moody's ratings represent the insurer's financial strength rating. On May 26, 2023, Moody's affirmed RenaissanceRe's ratings following the announcement of the Validus Acquisition.
- (4) The Fitch rating for Renaissance Reinsurance represents the insurer's financial strength rating. The Lloyd's Overall Market Rating represents Syndicate 1458's financial strength rating. On May 23, 2023, Fitch affirmed RenaissanceRe's ratings following the announcement of the Validus Acquisition.

As of July 24, 2023, there were no material changes to our ratings as disclosed in our Form 10-K for the year ended December 31, 2022.

SUPPLEMENTAL GUARANTOR FINANCIAL INFORMATION

RenaissanceRe Finance, a 100% owned subsidiary of RenaissanceRe, is the issuer of certain 3.700% Senior Notes due 2025 and 3.450% Senior Notes due 2027, each of which are fully and unconditionally guaranteed by RenaissanceRe. The guarantees are senior unsecured obligations of RenaissanceRe and rank equally in right of payment with all other existing and future unsecured and unsubordinated indebtedness of RenaissanceRe which may be outstanding from time to time. Each series of notes contain various covenants, including limitations on mergers and consolidations, and restrictions as to the disposition of, and the placing of liens on, stock of designated subsidiaries. For additional information related to the terms of our outstanding debt securities, see “Note 8. Debt and Credit Facilities” in the “Notes to the Consolidated Financial Statements” in our Form 10-K for the year ended December 31, 2022 and “Note 7. Debt and Credit Facilities” included herein.

The following tables present supplemental summarized financial information for RenaissanceRe and RenaissanceRe Finance, collectively the “Obligor Group.” Intercompany transactions among the members of the Obligor Group have been eliminated. The financial information of non-obligor subsidiaries has been excluded from the summarized financial information. Significant intercompany transactions and receivable/payable balances between the Obligor Group and non-obligor subsidiaries are presented separately in the summarized financial information:

Summarized Balance Sheets

(in thousands)	June 30, 2023	December 31, 2022
Assets		
Receivables due from non-obligor subsidiaries	\$ 560,173	\$ 370,219
Other current assets	1,503,642	216,909
Total current assets	\$ 2,063,815	\$ 587,128
Goodwill and other intangibles	\$ 103,114	\$ 104,718
Loan receivable from non-obligor subsidiaries	902,618	874,721
Other noncurrent assets	788,536	186,279
Total noncurrent assets	\$ 1,794,268	\$ 1,165,718
Liabilities		
Payables due to non-obligor subsidiaries	\$ 10,093	\$ 16,049
Other current liabilities	46,516	95,792
Total current liabilities	\$ 56,609	\$ 111,841
Loan payable to non-obligor subsidiaries	\$ 201,380	\$ 201,380
Other noncurrent liabilities	1,834,234	1,092,728
Total noncurrent liabilities	\$ 2,035,614	\$ 1,294,108

Summarized Statement of Operations

(in thousands)	Six months ended June 30, 2023
Revenues	
Intercompany revenue with non-obligor subsidiaries	\$ 39,931
Other revenue	25,632
Total revenues	65,563
Expenses	
Intercompany expense with non-obligor subsidiaries	20,879
Other expense	55,665
Total expenses	76,544
Income tax benefit (expense)	(2,414)
Net income (loss)	(13,395)
Dividends on RenaissanceRe preference shares	(17,688)
Net income (loss) attributable to Obligor Group	\$ (31,083)

CURRENT OUTLOOK

Over the last 10 years, we have made key strategic decisions to build the capabilities and scale that we believe will allow us to generate superior returns in an evolving marketplace. We have diversified our sources of capital through various owned and managed balance sheets as well as equity, debt and insurance-linked securities markets. We believe that the prior planning initiatives we implemented provide the flexibility to manage large loss events and efficiently distribute capital across balance sheets. We are unique among our peers in that we have both owned and managed, and rated and fronted, vehicles across the risks that we write. This has afforded us significant flexibility to react when the world changes.

Validus Acquisition

In May 2023, we announced the Validus Acquisition. We believe that the Validus Acquisition has several significant strategic benefits for us, and advances our strategy as a pure-play global property and casualty reinsurer, providing additional scale and increasing our importance with customers and brokers. Through the Validus Acquisition, we will gain access to a large book of reinsurance business that is closely aligned with our existing business mix, which we believe is attractive and will accelerate our growth in a favorable market.

Upon completion, we believe that the Validus Acquisition will be immediately accretive to our shareholders across our three drivers of profit and key financial metrics. At the same time, we intend to expand our relationship with a core trading partner, AIG, who is one of our five largest clients by premium volume, as the Validus Acquisition provides options for increased future strategic engagement. We have established a dedicated integration team that is reviewing Validus's operating model, processes and systems so that we can best bring together our two companies.

Reinsurance Market Trends and Developments

Over the course of 2023, we have seen a shift in the reinsurance market environment that we believe has inured to our benefit. We believe we have created significant opportunities to source attractive risk in the lines of business that we write, and that such opportunities will result in superior returns for our shareholders. Overall, the shift in the reinsurance market environment has resulted in an increase in rates across certain lines of business at the January 1, April 1 and June 1 renewals.

We expect continued attractive opportunities, and believe that we are in a strong position to take advantage of them due to: (i) our capital position; (ii) our ability to deploy excess capital; (iii) our status as one of the largest writers of property catastrophe risk; and (iv) increased demand for property catastrophe risk at the upper ends of programs where we have capacity.

We believe that our understanding of volatility places us in a preferred position to accept risk, and we continue to see strong opportunities for growth across our portfolio. We have a strategic commitment to reinsurance that we think enhances our value proposition to customers because our reinsurance participation is consistent and broad, and our focus on reinsurance minimizes potential channel conflict with our customers. This commitment is only reinforced by the pending Validus Acquisition.

We are uniquely positioned to write a variety of risks, leveraging the enhancements we have made over the last several years to our risk and capital management technology and underwriting expertise to cover additional lines of business. In particular, we have invested heavily to understand the influence of climate change on the weather and its impact on the risks that we take. We believe that the RenaissanceRe Risk Sciences team gives us an advantage in properly reflecting the evolving phenomenon of climate change in our models as compared to commercially available models. Our scientists and underwriters have consistently adjusted our global views of risk to consider our present and future expectations of hazard and loss drivers from all sources including, but not limited to climate change, inflation and other factors. We plan to continue to seek to take advantage of additional available opportunities and think that the strategic decisions we have made in prior periods have laid the foundation for these initiatives. We believe that our clients value our ability to be a long-term partner who brings access to multiple forms of capital and innovative, large-scale solutions.

General Economic Conditions

We believe the stresses in the global economy will continue and that this may result in increased market volatility. Global events, including the war in Ukraine and global supply chain issues have contributed to widespread economic inflation. Also, there has been heightened instability in the global banking sector. We consider the anticipated effects of inflation, including social, economic, and event-driven, in our loss models, on our investment portfolio, and generally in the running of our business, and have enhanced our inflation framework to proactively monitor this trend.

Many central banks have raised interest rates, which could act as a countervailing force against some inflationary pressures. The effects of interest rate trends on our reinsurance and insurance business could be magnified for longer-tail business lines that are more inflation-sensitive, particularly in our Casualty and Specialty segment, and in our other property class of business within our Property segment.

The risk of a global recession is a continuing concern. However, we believe that our business model is well positioned to be less sensitive to an inflationary or recessionary environment. This type of environment may increase demand for reinsurance by reducing the supply and increasing the cost of capital, and adjusting customers' risk tolerances. Consequently, reinsurance rates may rise while becoming more competitive as compared to other forms of risk capital. Notwithstanding the many uncertainties and challenges that lie ahead, we believe that our track record of responding to industry events, differentiated risk management and client service capabilities, and access to diverse sources of both capital and risk position us favorably in the current environment.

Three Drivers of Profit

Underwriting Income

The second quarter of 2023 was an active renewal cycle, which included mid-year renewals in the Property segment and significant activity in the Casualty and Specialty segment. Through disciplined underwriting, we aim to manage the cycle and allocate our capital to the business that we believe will generate the best returns.

Property

With the global impact of climate change, we expect the frequency and severity of perils such as drought, flood, rain, hail and wildfire to continue at the elevated levels we have seen in recent years. So far, in 2023, we have seen catastrophe activity that is above the norm. We think that expected losses, cost of capital and inherent volatility in this business are all increasing, which should create favorable pricing trends. As anticipated, the mid-year renewals benefited from continued upward rate momentum and improved terms and conditions. We expect that higher rates will persist for some time as we believe that the current hard market is being driven by equity and insurance-linked securities investor sentiment requiring appropriate compensation for the risk and volatility assumed.

At the mid-year renewals, we continued to optimize our portfolio, growing our property catastrophe business at attractive rates while shifting catastrophe exposure away from our other property business, to take advantage of the best opportunities. While we have moved away from some programs in Florida, Southeast U.S. wind risk remains a primary risk in our portfolio as we have moved towards more regional and nationwide programs.

Casualty and Specialty

We continue to see opportunities across multiple lines of business and geographies within our Casualty and Specialty segment, and we have expanded participation on multiple casualty and specialty lines. However, different lines of business are at different points in their respective cycles, and we have been managing these cycles through strong underwriting discipline.

At the June 1 renewals, we saw a continuation of the trends from the January 1 renewals in traditional casualty business, and in our specialty business market conditions remaining broadly favorable as we continue to grow into a dislocated market characterized by limited supply. More specifically, we grew in the other specialty lines of business in an attractive market, while reducing in the professional liability and credit lines of business. Overall, we are pleased with the position of this portfolio. We think that our prior work building strong relationships with key customers has allowed us to gain superior access to desirable business.

Fee Income

Our Capital Partners unit continues to grow into an attractive market and has generated steady management fees, reflecting the growth in activity within our Capital Partners unit. We view this as a growing and sustainable driver of profit that we expect will continue to generate increasing low-volatility management fee income. As the catastrophe bond market remains active, we have seen strong capital inflows into Medici and other catastrophe bond vehicles from both new and existing investors.

Investment Income

Historic increases in interest rates have driven significant short-term mark-to-market losses in our investment portfolio. However, we continue to see momentum for an increase in net investment income from our investment portfolio as interest rates have risen.

We are benefiting from higher interest rates and growth in this driver of profit as a result of our proactive rotation of the portfolio into higher yielding securities over the past year. However, we continue to maintain a defensive position for our investment portfolio.

See the “Risk Factors” section in our Form 10-K, filed with the SEC on February 8, 2023 and in this Form 10-Q, for additional information on factors that could cause our actual results to differ materially from those in the forward-looking statements contained in this Form 10-Q and other documents we file with the SEC.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

We are principally exposed to four types of market risk: interest rate risk; foreign currency risk; credit risk; and equity price risk. Our investment guidelines permit, subject to approval, investments in derivative instruments such as futures, options, foreign currency forward contracts and swap agreements, which may be used to assume risks or for hedging purposes.

Except as described below, there were no material changes to these market risks, as disclosed in “Part II, Item 7A. Quantitative and Qualitative Disclosures about Market Risk” in our Form 10-K for the year ended December 31, 2022, during the six months ended June 30, 2023. See “Part II, Item 7A. Quantitative and Qualitative Disclosures about Market Risk,” in our Form 10-K for the year ended December 31, 2022 for a discussion of our exposure to these risks.

Upon consummation of the Validus Acquisition, Validus's assets and liabilities will be consolidated with RenaissanceRe and subject to our existing policies for addressing the markets risks noted herein. As a result of the potential acquisition of Validus, we anticipate increased exposure to each of these market risks, resulting from an increase in the size of our investment portfolio. We do not currently anticipate significant changes in how those exposures are managed in future reporting periods based upon what is known or expected to be in effect in future reporting periods, including the potential acquisition of Validus.

ITEM 4. CONTROLS AND PROCEDURES

Evaluation of Disclosure Controls and Procedures

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we have evaluated the effectiveness of the design and operation of our disclosure controls and procedures, as defined in Rules 13a-15(b) and 15d-15(b) of the Exchange Act, as of the end of the period covered by this report. Based upon that evaluation, our management, including our Chief Executive Officer and Chief Financial Officer, concluded that, at June 30, 2023, our disclosure controls and procedures were effective to provide reasonable assurance that information required to be disclosed in Company reports filed or submitted under the Exchange Act is (i) recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms and (ii) accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Changes in Internal Control Over Financial Reporting

There were no changes in our internal control over financial reporting during the quarter ended June 30, 2023, which were identified in connection with our evaluation required pursuant to Rules 13a-15 or 15d-15 under the Exchange Act, that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

PART II OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

There have been no material changes to the legal proceedings previously disclosed in our Form 10-K for the year ended December 31, 2022.

ITEM 1A. RISK FACTORS

Except as set forth below, there have been no material changes to the risk factors previously disclosed in our Form 10-K for the year ended December 31, 2022.

Risks Related to the Validus Acquisition

The Validus Business is subject to many of the same risks we are, and the Validus Acquisition will increase our exposure to many of the risks described under the heading "Risk Factors" set forth in our Annual Report on Form 10-K for the year ended December 31, 2022. In addition to those risks, you should carefully consider the following risks related to the Validus Acquisition. The below risks related to the Validus Acquisition should be read together with the audited consolidated financial statements of Validus Re for the years ended December 31, 2022 and December 31, 2021, which we have previously disclosed.

The Validus Acquisition may not be completed within the expected timeframe, or at all.

Completion of the Validus Acquisition is subject to the satisfaction or waiver of a number of conditions precedent, including relevant antitrust and regulatory clearances. Any relevant regulatory agency may refuse or delay its approval or seek to make its approval subject to compliance with unanticipated or onerous conditions. The Validus Acquisition is also subject to a number of other conditions beyond our control that may prevent, delay or otherwise negatively affect its completion. We cannot predict whether and when these other conditions will be satisfied. Failure to complete the Validus Acquisition would, and any delay in completing the Validus Acquisition could, prevent us from realizing the benefits that we expect from the Validus Acquisition. Additionally, subject to certain regulatory redemption requirements, if (i) the Validus Acquisition is not consummated on or before the specified mandatory redemption end date, or (ii) we notify the trustee that we will not pursue the consummation of the Validus Acquisition, we will be required to redeem the 5.750% Senior Notes due 2033 then outstanding at a redemption price equal to 101% of the principal amount of the notes to be redeemed plus accrued and unpaid interest to, but excluding, the special mandatory redemption date.

Regulatory agencies in certain jurisdictions may impose onerous conditions following the Validus Acquisition.

In certain jurisdictions, although consent may not be required from the relevant regulator, there is a risk that the regulator may impose onerous requirements on us following the Validus Acquisition. These conditions could have the effect, among other things, of imposing significant additional costs, limiting our revenues, requiring divestitures of certain assets, reducing the anticipated benefits of the Validus Acquisition or imposing other operating restrictions.

We may experience difficulties in integrating the Validus Business.

Our ability to achieve the benefits we anticipate from the Validus Acquisition will depend in large part upon whether we are able to integrate the Validus Business into our business in an efficient and effective manner. We may not be able to integrate the Validus Business smoothly or successfully and the process may take longer than expected. The integration of certain operations and the differences in operational culture following the Validus Acquisition will require the dedication of significant management resources, which may distract management's attention from day-to-day business operations. If we are unable to successfully integrate the operations of the Validus Business into our business, we may be unable to realize the anticipated benefits we expect to achieve as a result of the Validus Acquisition and our business and results of operations could be adversely affected.

The success with which we are able to integrate the Validus Business will depend on our ability to manage a variety of issues, including the following:

- Loss of key personnel or higher than expected employee attrition rates could adversely affect the performance of the Validus Business and our ability to integrate it successfully.
- Customers of the Validus Business may reduce, delay or defer decisions concerning their use of the insurance and reinsurance products and services of the Validus Business as a result of the Validus Acquisition or uncertainties related to the consummation of the Validus Acquisition, including any potential unfamiliarity with our brand in regions where we have not had a significant presence prior to the time of the Validus Acquisition.
- Integrating the Validus Business with our existing operations will require us to coordinate geographically separated organizations, address possible differences in corporate culture and management philosophies, merge financial processes and risk and compliance procedures and combine separate information technology platforms.

There is the risk that we will be exposed to obligations and liabilities of the Validus Business that are not adequately covered, in amount, scope or duration, by the indemnification provisions in the Stock Purchase Agreement and related agreements or reflected or reserved for in the Validus Business' historical financial statements, and there is the risk that such historical financial statements may contain errors. We may become exposed to obligations and liabilities that were undiscovered in the course of performing due diligence of the Validus Business in connection with the Validus Acquisition and, therefore, may not be adequately addressed in the Stock Purchase Agreement and related agreements. Any of these liabilities, individually or in the aggregate, could have a material adverse effect on our business, financial condition or results of operations.

We expect to incur significant one-time costs in connection with the Validus Acquisition and the related integration of the Validus Business. The costs and liabilities actually incurred in connection with the Validus Acquisition and subsequent integration process may exceed those anticipated.

The due diligence process that we undertook in connection with the Validus Acquisition may not have revealed all facts that may be relevant in connection with the Validus Acquisition.

In deciding whether to enter into the Stock Purchase Agreement, we conducted the due diligence investigation that we deemed reasonable and appropriate based on the facts and circumstances applicable to the Validus Acquisition. When conducting due diligence, we are required to evaluate important and complex business, financial, tax, accounting, technological, governance, legal and regulatory issues. In addition to our employees, outside consultants, legal advisors and accountants were involved in the due diligence process in varying degrees. Despite our efforts, the results of our due diligence may not be complete and accurate or, even if complete and accurate, may not be sufficient to identify all relevant facts, which could prevent us from realizing the anticipated benefits we expect to achieve as a result of the Validus Acquisition and our business and results of operations could be adversely affected.

Following the Validus Acquisition, our prospects may be materially and adversely affected if we are not able to manage the growth of the Validus Business' operations successfully.

Future growth of our business and the Validus Business will require, among other things, the continued development of adequate underwriting and claim handling capabilities and skills, sufficient capital base, increased marketing and sales activities, and the hiring and training of new personnel. There can be no assurance that we will be successful in managing future growth. In particular, there may be difficulties in hiring and training sufficient numbers of customer service personnel and agents to keep pace with any future growth in the number of customers in our developing or developed markets. In addition, we may experience difficulties in upgrading, developing and expanding information technology systems quickly enough to accommodate any future growth. If we are unable to manage future growth following the Validus Acquisition, our prospects may be materially and adversely affected.

The historical financial statements of Validus Re we have previously disclosed are not representative of the future financial position, future results of operations or future cash flows of the Validus Business following the Validus Acquisition.

The financial position, results of operations and cash flows of Validus Re presented in the historical financial statements of Validus Re, which we have previously disclosed, are the financial statements of Validus Re only, and not of all of the Validus entities to be acquired in the Validus Acquisition, and accordingly they do not present a complete picture of the Validus Business. Further, the financial statements of Validus Re as of and for the year ended December 31, 2022, do not reflect the financial position, results of operations and cash flows of Validus Re at any point in time subsequent to December 31, 2022, including as of or for the quarter ended March 31, 2023 or June 30, 2023, for which financial statements have not been provided.

Additionally, even with respect to Validus Re, the financial position, results of operations and cash flows presented in the financial statements may be different from those that would have resulted had Validus Re been operated as part of our business and different from those that may result in the future from Validus Re being operated as a part of our business. This is primarily because, among other things:

- The historical financial information reflects allocation of expenses from AIG. Such allocations may be different from the comparable expenses Validus Re would have incurred as part of our business.
- Certain factors resulting from the Validus Acquisition will impact the financial position, results of operations and cash flows of Validus Re as a result of Validus Re being operated as a part of our business, including, but not limited to, fair value adjustments, policy differences, the price of our common shares and tax impacts.

Accordingly, the historical financial statements of Validus Re should not be viewed as indicative of the future financial position, future results of operations or future cash flows of Validus Re following the Validus Acquisition, or as indicative of the financial position, results of operations or cash flows of the Validus Business for any period.

Increased debt obligations as a result of the Validus Acquisition could have negative consequences.

In connection with the Validus Acquisition, we issued \$750.0 million principal amount of 5.750% Senior Notes due 2033. We may also incur additional indebtedness to fund a portion of the cash consideration in the Validus Acquisition. To the extent that our debt obligations increase as a result of the Validus Acquisition, they could have negative consequences, including:

- Making us more vulnerable to general adverse economic and industry conditions;
- Requiring us to dedicate increased cash flow from operations to the payment of principal and interest on our debt, thereby reducing the funds we have available for other purposes;
- Reducing our ability to execute on our strategy and reducing our flexibility in planning for or reacting to changes in our business and market conditions; and
- Limiting our access to capital markets such that additional capital may not be available or may only be available on unfavorable terms.

The issuance of common shares to AIG in connection with the Validus Acquisition will have a dilutive impact on our shareholders.

We have agreed to issue to AIG the Base Common Share Consideration at the completion of the Validus Acquisition. As a result of this issuance, if the Validus Acquisition occurs, more of our common shares will be outstanding and each of our existing shareholders will own a smaller percentage of our common shares than outstanding.

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

Our share repurchase program may be effected from time to time, depending on market conditions and other factors, through open market purchases and privately negotiated transactions. On August 2, 2022, our Board of Directors approved a renewal of our authorized share repurchase program to an aggregate amount of up to \$500.0 million. Unless terminated earlier by our Board of Directors, the program will expire when we have repurchased the full value of the shares authorized. The table below details the repurchases that were made under the program during the second quarter of 2023, and includes other shares purchased, which represents common shares surrendered by employees in respect of withholding tax obligations on the vesting of restricted stock.

	Total shares purchased		Other shares purchased		Shares purchased under publicly announced repurchase program		Maximum dollar amount still available under repurchase program (in thousands)
	Shares purchased	Average price per share	Shares purchased	Average price per share	Shares purchased	Average price per share	
Beginning dollar amount available to be repurchased							\$ 500,000
April 1 - 30, 2023	—	\$ —	—	\$ —	—	\$ —	500,000
May 1 - 31, 2023	514	\$ 210.34	514	\$ 210.34	—	\$ —	500,000
June 1 - 30, 2023	—	\$ —	—	\$ —	—	\$ —	500,000
Total	<u>514</u>	<u>\$ 210.34</u>	<u>514</u>	<u>\$ 210.34</u>	<u>—</u>	<u>\$ —</u>	<u>\$ 500,000</u>

During the six months ended June 30, 2023, we did not repurchase common shares pursuant to our publicly announced share repurchase program. At June 30, 2023, \$500.0 million remained available for repurchase under the share repurchase program. In the future, we may authorize additional purchase activities under the currently authorized share repurchase program, increase the amount authorized under the share repurchase program, or adopt additional trading plans. Our decision to repurchase common shares will depend on, among other matters, the market price of the common shares and our capital requirements.

ITEM 3. DEFAULTS UPON SENIOR SECURITIES

None.

ITEM 4. MINE SAFETY DISCLOSURES

Not applicable.

ITEM 5. OTHER INFORMATION

During the period covered by this report, none of the Company's directors or executive officers has adopted or terminated a Rule 10b5-1 trading arrangement or a non-Rule 10b5-1 trading arrangement (each as defined in Item 408 of Regulation S-K under the Securities Exchange Act of 1934, as amended).

ITEM 6. EXHIBITS

- 2.1 [Stock Purchase Agreement, dated May 22, 2023, among RenaissanceRe Holdings Ltd. and AIG International Group Inc., incorporated by reference to RenaissanceRe Holdings Ltd.'s Current Report on Form 8-K, filed with the SEC on May 23, 2023.](#)
- 2.1(a) [Amendment No. 1 to the Stock Purchase Agreement, dated as of June 15, 2023, by and between American International Group, Inc. and RenaissanceRe holdings Ltd.](#)
- 4.1 [Second Supplemental Indenture, dated as of June 5, 2023, by and between RenaissanceRe Holdings Ltd., as issuer, and Deutsche Bank Trust Company Americas, as trustee, incorporated by reference to RenaissanceRe Holdings Ltd.'s Current Report on Form 8-K, filed with the SEC on June 5, 2023.](#)
- 31.1 [Certification of Kevin J. O'Donnell, Chief Executive Officer of RenaissanceRe Holdings Ltd., pursuant to Rule 13a-14\(a\) or Rule 15d-14\(a\) of the Securities Exchange Act of 1934, as amended.](#)
- 31.2 [Certification of Robert Qutub, Chief Financial Officer of RenaissanceRe Holdings Ltd., pursuant to Rule 13a-14\(a\) or Rule 15d-14\(a\) of the Securities Exchange Act of 1934, as amended.](#)
- 32.1 [Certification of Kevin J. O'Donnell, Chief Executive Officer of RenaissanceRe Holdings Ltd., pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.](#)
- 32.2 [Certification of Robert Qutub, Chief Financial Officer of RenaissanceRe Holdings Ltd., pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.](#)
- 101.INS XBRL Instance Document - the instance document does not appear in the Interactive Data File because its XBRL tags are embedded within the Inline XBRL document.
- 101.SCH Inline XBRL Taxonomy Extension Schema Document.
- 101.CAL Inline XBRL Taxonomy Extension Calculation Linkbase Document
- 101.LAB Inline XBRL Taxonomy Extension Label Linkbase Document.
- 101.DEF Inline XBRL Taxonomy Extension Definition Linkbase Document.
- 101.PRE Inline XBRL Taxonomy Extension Presentation Linkbase Document
- 104 Cover Page Interactive Data File (embedded within the Inline XBRL document and included in Exhibit 101).

* Represents management contract or compensatory plan or arrangement.

SIGNATURES

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

RENAISSANCERE HOLDINGS LTD.

Date: July 26, 2023 /s/ Robert Qutub

Robert Qutub
Executive Vice President and Chief Financial Officer
(Principal Financial Officer and Duly Authorized Officer)

Date: July 26, 2023 /s/ James C. Fraser

James C. Fraser
Senior Vice President and Chief Accounting Officer
(Principal Accounting Officer)

AMENDMENT NO. 1 TO THE STOCK PURCHASE AGREEMENT

THIS AMENDMENT NO. 1 TO THE STOCK PURCHASE AGREEMENT, dated as of June 15, 2023 (this “Amendment”), amends that certain Stock Purchase Agreement, dated as of May 22, 2023 (the “Agreement”), by and between American International Group, Inc., a Delaware corporation (“Parent”) and RenaissanceRe Holdings Ltd., a Bermuda exempted company limited by shares (the “Acquiror”). Capitalized terms used but not defined herein shall have the meanings ascribed to them in the Agreement.

WHEREAS, Parent and the Acquiror wish to amend the Agreement on the terms set forth in this Amendment.

NOW, THEREFORE, Parent and the Acquiror hereto agree as follows:

1. Amendment. Pursuant to Section 11.07 of the Agreement, Section 5.06(b) of the Agreement is hereby amended and replaced in its entirety with the following:

“(i) Promptly, and in any case within thirty (30) days after the date hereof, the parties hereto shall file, or cause to be filed, all Notification and Report Forms pursuant to the HSR Act with respect to the transactions contemplated by this Agreement, (ii) as promptly as practicable, and in any case within sixty (60) days after the date hereof, (x) the Acquiror shall file, or cause to be filed, all change of control and material change applications in each jurisdiction where required by applicable insurance Laws to be filed by Acquiror with respect to the transactions contemplated by this Agreement, including the change of control and material change filings and applications identified in Section 4.03 of the Acquiror Disclosure Schedule (unless otherwise specified therein), (y) Parent shall file, or cause to be filed, all change of control and material change applications in each jurisdiction where required by applicable insurance Laws to be filed by Parent or any of its Affiliates (including any Company Group Entity) with respect to the transactions contemplated by this Agreement, including the change of control and material change filings and applications identified in Section 3.05 of the Parent Disclosure Schedule (unless otherwise specified therein), and (z) Parent, or any of its applicable Affiliates, shall file, or cause to be filed, any application or filing required by a Governmental Authority for the payment of the dividend (or other payments or transfers) contemplated by Section 5.12, and (iii) promptly after the date hereof, the parties hereto shall, or cause to be filed, all other filings and notifications, or where required or mutually determined to be advisable, pre-filings and pre-notifications, with all Governmental Authorities that are required under applicable Laws to consummate and make effective the transactions contemplated by this Agreement, including any other filing, notification, pre-filing or pre-notification (as applicable) that may be required under any applicable Antitrust Law in connection with the transactions contemplated by this Agreement. Parent and the Acquiror, and their respective Affiliates, each shall supply, or cause to be supplied, as promptly as practicable any additional information and documentary material that may be requested by a Governmental Authority in connection with the filings set forth in (i), (ii) and (iii) and, subject to Section 5.06(e), shall each use its reasonable best efforts to promptly (but in any event prior to the Outside Date) obtain all necessary actions or nonactions, waivers, consents, clearances, approvals and expirations or terminations of waiting periods from any Governmental Authority; provided that none of the Acquiror, Parent, any of the Company Group Entities or any of their respective Affiliates shall be required to undertake any Burdensome Condition. The Acquiror shall have responsibility for the filing fees associated with the filings it is required to make, including those set forth in Section 4.03 of the Acquiror Disclosure

Schedule (and including, for the avoidance of doubt, filings made under the HSR Act), and Parent shall have responsibility for the filing fees associated with filings Parent or any of its Affiliates are required to make, including those designated as filings of Parent in Section 3.05 of the Parent Disclosure Schedule.”

2. No Other Changes. Except as expressly set forth herein, the terms, provisions and conditions of the Agreement and the other Transaction Agreements remain in full force and effect and nothing in this Amendment will (a) constitute a waiver of compliance with respect to the Agreement or any other Transaction Agreement in any other instance, (b) prejudice any right or remedy that the parties hereto may now or in the future have under or in connection with the Agreement or any other Transaction Agreement or (c) change, amend, supplement or modify, or be construed as a change, amendment, supplement or modification to, any other term, provision or condition of the Agreement or any other Transaction Agreement. Each reference in the Agreement to “this Agreement,” “hereunder,” “hereof” or words of like import referring to the Agreement shall mean the Agreement as modified and amended by this Amendment other than references to the “date of this Agreement,” “the date hereof” or similar references which shall continue to refer to May 22, 2023.

3. Miscellaneous. The provisions of Section 11.01 (Notices), Section 11.03 (Severability), Section 11.04 (Entire Agreement), Section 11.05 (Assignment), Section 11.06 (No Third-Party Beneficiaries), Section 11.07 (Amendment; Waiver), Section 11.09 (Governing Law; Venue; Waiver of Jury Trial), and Section 11.10 (Rules of Construction) of the Agreement are hereby incorporated into and will apply to this Amendment *mutatis mutandis*.

4. Counterparts. This Amendment may be executed in two or more counterparts, and by the different parties to each such agreement in separate counterparts, each of which when executed shall be deemed to be an original but all of which taken together shall constitute one and the same agreement. Delivery of an executed counterpart of a signature page to this Amendment by facsimile or other means of electronic transmission (including pdf or any electronic signature complying with the U.S. federal ESIGN Act of 2000, e.g., www.docusign.com) shall be as effective as delivery of a manually executed counterpart of this Amendment.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be duly executed as of the date first above written.

AMERICAN INTERNATIONAL GROUP, INC.

By: /s/Sabra Purtill
Name: Sabra Purtill
Title: Executive Vice President and Interim
Chief Financial Officer

RENAISSANCERE HOLDINGS LTD.

By: /s/ Shannon Lowry Bender
Name: Shannon Lowry Bender
Title: EVP, Group General Counsel

[Signature Page to Amendment No. 1 to the Stock Purchase Agreement]

CERTIFICATION

I, Kevin J. O'Donnell, certify that:

1. I have reviewed this Form 10-Q of RenaissanceRe Holdings Ltd.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: July 26, 2023

/s/ Kevin J. O'Donnell

Kevin J. O'Donnell
Chief Executive Officer

CERTIFICATION

I, Robert Qutub, certify that:

1. I have reviewed this Form 10-Q of RenaissanceRe Holdings Ltd.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer(s) and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a. Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer(s) and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: July 26, 2023

/s/ Robert Qutub
Robert Qutub
Chief Financial Officer

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

In connection with the Form 10-Q of RenaissanceRe Holdings Ltd. (the "Company") for the quarter ended June 30, 2023, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Kevin J. O'Donnell, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

/s/ Kevin J. O'Donnell

Kevin J. O'Donnell

Chief Executive Officer

July 26, 2023

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

In connection with the Form 10-Q of RenaissanceRe Holdings Ltd. (the "Company") for the quarter ended June 30, 2023, as filed with the Securities and Exchange Commission on the date hereof (the "Report"), I, Robert Qutub, certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, that:

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

/s/ Robert Qutub

Robert Qutub

Chief Financial Officer

July 26, 2023