

Putnam Variable Trust

Putnam VT High Yield Fund

Semiannual report 6 | 30 | 23

Message from the Trustees

August 7, 2023

Dear Shareholder:

Stocks have generally advanced through the first half of 2023. Recently, a strong pulse of innovation has been gaining investors' attention, and the technology sector has started to rebound from a difficult 2022. More broadly, international markets are performing well, even though the reopening of China's economy lacked the dynamism many had anticipated.

Bond markets have experienced more ups and downs, but performance has improved compared with 2022. U.S. inflation has been trending downward, while the country's economic growth has remained positive. Against this backdrop, investors are weighing the impact of high borrowing costs, stress in the banking system, and a weaker housing market.

As active managers, your investment team continues to research attractive opportunities for your fund while monitoring risks. This report offers an update on their efforts.

Thank you for investing with Putnam.

Respectfully yours,

Robert L. Reynolds

President and Chief Executive Officer

Putnam Investments

Kenneth R. Leibler

Chair, Board of Trustees

The views expressed in this report are exclusively those of Putnam Management and are subject to change. They are not meant as investment advice. Please note that the holdings discussed in this report may not have been held by the fund for the entire period. Portfolio composition is subject to review in accordance with the fund's investment strategy and may vary in the future. Current and future portfolio holdings are subject to risk.

Consider these risks before investing: The value of investments in the fund's portfolio may fall or fail to rise over extended periods of time for a variety of reasons, including general economic, political, or financial market conditions; investor sentiment and market perceptions; government actions; geopolitical events or changes; and factors related to a specific issuer, geography, industry, or sector. These and other factors may lead to increased volatility and reduced liquidity in the fund's portfolio holdings.

Lower-rated bonds may offer higher yields in return for more risk. Bond investments are subject to interest-rate risk (the risk of bond prices falling if interest rates rise) and credit risk (the risk of an issuer defaulting on interest or principal payments). Interest-rate risk is generally greater for longer-term bonds, and credit risk is generally greater for below-investment-grade bonds (a significant part of the fund's investments). Risks associated with derivatives include increased investment exposure (which may be considered leverage) and, in the case of over-the-counter instruments, the potential inability to terminate or sell derivatives positions and the potential failure of the other party to the instrument to meet its obligations. Unlike bonds, funds that invest in bonds have fees and expenses.

Our investment techniques, analyses, and judgments may not produce the outcome we intend. The investments we select for the fund may not perform as well as other securities that we do not select for the fund. We, or the fund's other service providers, may experience disruptions or operating errors that could have a negative effect on the fund. You can lose money by investing in the fund.

Performance summary (as of 6/30/23)

Investment objective

High current income, with a secondary objective of capital growth when consistent with achieving high current income

Net asset value June 30, 2023

Class IA: \$5.25 Class IB: \$5.20

Annualized total return at net asset value (as of 6/30/23)

| | Class IA shares (2/1/88) | Class IB shares (4/30/98) | JPMorgan Developed High Yield Index* |
|--------------|-----------------------------|------------------------------|--|
| 6 months | 5.09% | 5.06% | 5.76% |
| 1 year | 7.94 | 7.74 | 9.17 |
| 5 years | 2.75 | 2.53 | 3.41 |
| 10 years | 3.82 | 3.57 | 4.58 |
| Life of fund | 6.81 | 6.59 | _ |

Returns for periods of less than one year are not annualized.

For a portion of the periods, the fund had expense limitations, without which returns would have been lower.

The JPMorgan Developed High Yield Index is an unmanaged index of high-yield fixed income securities issued in developed countries.

Data represent past performance. Past performance does not guarantee future results. More recent returns may be less or more than those shown. Investment return and principal value will fluctuate, and you may have a gain or a loss when you sell your shares. Performance information does not reflect any deduction for taxes a shareholder may owe on fund distributions or on the redemption of fund shares. All total return figures are at net asset value and exclude contract charges and expenses, which are added to the variable annuity contracts to determine total return at unit value. Had these charges and expenses been reflected, performance would have been lower. Performance of class IB shares before their inception is derived from the historical performance of class IA shares, adjusted to reflect the higher operating expenses applicable to such shares. For more recent performance, contact your variable annuity provider who can provide you with performance that reflects the charges and expenses at your contract level.

Portfolio composition

| Consumer cyclicals | 22.9% |
|---------------------------|-------|
| Energy | 12.7% |
| Basic materials | 11.2% |
| Capital goods | 10.2% |
| Technology | 8.2% |
| Health care | 7.6% |
| Financials | 7.1% |
| Consumer staples | 5.6% |
| Communication services | 4.7% |
| Utilities | 1.8% |
| Transportation | 1.7% |
| Cash and net other assets | 6.3% |
| | |

Allocations are shown as a percentage of the fund's net assets. Cash and net other assets, if any, represent the market value weights of cash, derivatives, short-term securities, and other unclassified assets in the portfolio. Summary information may differ from the portfolio schedule included in the financial statements due to the inclusion of derivative securities, any interest accruals, the use of different classifications of securities for presentation purposes, and rounding. Holdings and allocations may vary over time.

Credit quality

| BBB | 11.3% |
|---------------------------|-------|
| ВВ | 43.8% |
| В | 29.4% |
| CCC and below | 6.6% |
| Notrated | 2.5% |
| Cash and net other assets | 6.3% |

Credit qualities are shown as a percentage of the fund's net assets. A bond rated BBB or higher (A-3 or higher for short-term debt) is considered investment grade. This table reflects the highest security rating provided by one or more of Standard & Poor's, Moody's, and Fitch. Ratings and portfolio credit quality will vary over time. Cash and net other assets, if any, represent the market value weights of cash, derivatives, and short-term securities in the portfolio. The fund itself has not been rated by an independent rating agency. Due to rounding, percentages may not equal 100%.

^{*}The fund's benchmark, the JPMorgan Developed High Yield Index, was introduced on 12/31/94, which post-dates the inception of the fund.

Understanding your fund's expenses

As an investor in a variable annuity product that invests in a registered investment company, you pay ongoing expenses, such as management fees, distribution fees (12b-1 fees), and other expenses. Using the following information, you can estimate how these expenses affect your investment and compare them with the expenses of other funds. You may also pay one-time transaction expenses, which are not shown in this section and would result in higher total expenses. Charges and expenses at the insurance company separate account level are not reflected. For more information, see your fund's prospectus or talk to your financial representative.

Review your fund's expenses

The two left-hand columns of the Expenses per \$1,000 table show the expenses you would have paid on a \$1,000 investment in your fund from 1/1/23 to 6/30/23. They also show how much a \$1,000 investment would be worth at the close of the period, assuming actual returns and expenses. To estimate the ongoing expenses you paid over the period, divide your account value by \$1,000, then multiply $the \, result \, by \, the \, number \, in \, the \, first \, line \, for \, the \, class \, of \, shares \, you \, own.$

Compare your fund's expenses with those of other funds

The two right-hand columns of the Expenses per \$1,000 table show your fund's expenses based on a \$1,000 investment, assuming a hypothetical 5% annualized return. You can use this information to compare the ongoing expenses (but not transaction expenses or total costs) of investing in the fund with those of other funds. All shareholder reports of mutual funds and funds serving as variable annuity vehicles will provide this information to help you make this comparison. Please note that you cannot use this information to estimate your actual ending account balance and expenses paid during the period.

Expense ratios

| | ClassIA | Class IB |
|---|---------|----------|
| Total annual operating expenses for the fiscal year ended 12/31/22* | 0.74% | 0.99% |
| Annualized expense ratio for the six-month period ended 6/30/23 | 0.74% | 0.99% |

Fiscal year expense information in this table is taken from the most recent prospectus, is subject to change, and may differ from that shown for the annualized expense ratio and in the financial highlights of this report.

Expenses are shown as a percentage of average net assets.

Expenses per \$1,000

| | Expenses and value for a \$1,000 investment, assuming actual returns for the 6 months ended 6/30/23 | | Expenses and value for a \$1,000 investment, assumin a hypothetical 5% annualize return for the 6 months ended 6/30/23 | |
|-------------------------------------|--|------------|--|------------|
| | Class IA | Class IB | Class IA | Class IB |
| Expenses paid per \$1,000*† | \$3.76 | \$5.03 | \$3.71 | \$4.96 |
| Ending value (after expenses) | \$1,050.90 | \$1,050.60 | \$1,021.12 | \$1,019.89 |

*Expenses for each share class are calculated using the fund's annualized expense ratio for each class, which represents the ongoing expenses as a percentage of average net assets for the six months ended 6/30/23. The expense ratio may differ for each share class.

†Expenses based on actual returns are calculated by multiplying the expense ratio by the average account value for the period; then multiplying the result by the number of days in the period (181); and then dividing that result by the number of days in the year (365). Expenses based on a hypothetical 5% return are calculated by multiplying the expense ratio by the average account value for the six-month period; then multiplying the result by the number of days in the six-month period (181); and then dividing that result by the number of days in the year (365).

Your fund's managers



Portfolio Manager Norman P. Boucher joined Putnam in 1998 and has been in the investment industry since 1985.



Portfolio Manager Robert L. Salvin is Head of Corporate and Tax-Exempt Credit. He joined Putnam in 2000 and has been in the investment industry since 1986.

Your fund's managers also manage other accounts advised by Putnam Management or an affiliate, including retail mutual fund counterparts to the funds in Putnam Variable Trust.

^{*}Restated to reflect current fees.

The fund's portfolio 6/30/23 (Unaudited)

| CORPORATE BONDS AND NOTES (81.5%)* | Principal amount | Value |
|---|---------------------|-----------|
| Advertising and marketing services (0.3%) Clear Channel Outdoor Holdings, Inc. | | |
| 144A company guaranty sr. unsec. sub. notes 7.75%, 4/15/28 | \$250,000 | \$196,250 |
| Outfront Media Capital, LLC/ Outfront Media Capital Corp. 144A | | |
| company guaranty sr. unsec. notes 5.00%, 8/15/27 | 225,000 | 204,233 |
| Outfront Media Capital, LLC/Outfront Media Capital Corp. 144A sr. unsec. notes 4.25%, 1/15/29 | 20,000 | 16,807 |
| Basic materials (10.2%) | | 417,290 |
| ArcelorMittal SA sr. unsec. unsub. notes 7.00%, 10/15/39 (France) | 525,000 | 547,927 |
| ATI, Inc. sr. unsec. notes 4.875%, 10/1/29 | 90,000 | 81,017 |
| ATI, Inc. sr. unsec. sub. notes 5.875%, 12/1/27 | 470,000 | 454,851 |
| Avient Corp. 144A sr. unsec. unsub. notes 7.125%, 8/1/30 | | 419,741 |
| Axalta Coating Systems, LLC 144A | 415,000 | 413,141 |
| company guaranty sr. unsec. notes 3.375%, 2/15/29 | 565,000 | 480,956 |
| Beacon Roofing Supply, Inc. 144A company guaranty sr. notes 4.50%, 11/15/26 | 220,000 | 208,760 |
| Beacon Roofing Supply, Inc. 144A sr. unsec. unsub. notes 4.125%, 5/15/29 | 130,000 | 115,050 |
| Big River Steel, LLC/BRS Finance Corp. 144A sr. notes 6.625%, 1/31/29 | 256,000 | 252,880 |
| Boise Cascade Co. 144A company | | |
| guaranty sr. unsec. notes 4.875%, 7/1/30 | 375,000 | 338,995 |
| Builders FirstSource, Inc. 144A company guaranty sr. unsec. bonds 6.375%, 6/15/32 | 135,000 | 134,123 |
| Builders FirstSource, Inc. 144A | | |
| company guaranty sr. unsec. bonds 4.25%, 2/1/32 | 320,000 | 278,448 |
| Celanese US Holdings, LLC company guaranty sr. unsec. notes 6.33%, | | |
| 7/15/29 (Germany) | 365,000 | 362,488 |
| Celanese US Holdings, LLC company guaranty sr. unsec. notes 6.165%, 7/15/27 (Germany) | 215,000 | 213,888 |
| Cemex SAB de CV sr. unsec. sub. FRB Ser. REGS, 9.125%, perpetual | | |
| maturity (Mexico) CF Industries, Inc. company guaranty | 200,000 | 202,000 |
| sr. unsec. bonds 4.95%, 6/1/43 | 455,000 | 393,875 |
| Commercial Metals Co. sr. unsec. notes 4.375%, 3/15/32 | 165,000 | 142,592 |
| Commercial Metals Co. sr. unsec. notes 4.125%, 1/15/30 | 280,000 | 249,172 |
| Compass Minerals International, Inc. 144A company guaranty sr. unsec. notes 6.75%, 12/1/27 | 285,000 | 274,769 |
| Constellium NV 144A company guaranty sr. unsec. notes 5.875%, | | |
| 2/15/26 (France) | 250,000 | 244,933 |

| CORPORATE BONDS AND NOTES (81.5%)* cont | | Principal amount | Value |
|--|-----|---------------------|-------------|
| Basic materials cont. | | | |
| Constellium SE sr. unsec. notes | | | |
| | EUR | 150,000 | \$137,658 |
| CP Atlas Buyer, Inc. 144A sr. unsec. | | | |
| notes 7.00%, 12/1/28 | | \$145,000 | 113,825 |
| First Quantum Minerals, Ltd. 144A | | | |
| company guaranty sr. unsec. notes | | | |
| 8.625%, 6/1/31 (Canada) | | 475,000 | 485,688 |
| First Quantum Minerals, Ltd. 144A | | | |
| company guaranty sr. unsec. notes 6.875%, 3/1/26 (Canada) | | 200,000 | 196,881 |
| Freeport-McMoRan, Inc. company | | 200,000 | 130,001 |
| guaranty sr. unsec. unsub. notes | | | |
| 5.45%, 3/15/43 (Indonesia) | | 325,000 | 303,044 |
| Graphic Packaging International, LLC | | | |
| company guaranty sr. unsec. unsub. | | | |
| | EUR | 215,000 | 205,383 |
| Graphic Packaging International, LLC | | | |
| 144A company guaranty sr. unsec. | | ć 400 000 | 270 077 |
| notes 3.75%, 2/1/30 | | \$430,000 | 370,877 |
| Herens Holdco SARL 144A company | | | |
| guaranty sr. notes 4.75%, 5/15/28 (Luxembourg) | | 315,000 | 244,125 |
| HudBay Minerals, Inc. 144A company | | 313,000 | 277,123 |
| guaranty sr. unsec. notes 6.125%, | | | |
| 4/1/29 (Canada) | | 305,000 | 280,835 |
| Ingevity Corp. 144A company | | | |
| guaranty sr. unsec. notes | | | |
| 3.875%, 11/1/28 | | 250,000 | 212,813 |
| Intelligent Packaging Holdco Issuer | | | |
| LP 144A sr. unsec. notes 9.00%, | | | |
| 1/15/26 (Canada) ‡‡ | | 215,000 | 162,056 |
| Intelligent Packaging, Ltd., Finco, | | | |
| Inc./Intelligent Packaging, Ltd. | | | |
| Co-Issuer, LLC 144A sr. notes 6.00%, 9/15/28 (Canada) | | 225,000 | 190,934 |
| Kleopatra Holdings 2 SCA company | | 223,000 | 150,551 |
| guaranty sr. unsec. notes Ser. REGS, | | | |
| | UR | 240,000 | 166,954 |
| Louisiana-Pacific Corp. 144A sr. | | | |
| unsec. notes 3.625%, 3/15/29 | | \$245,000 | 214,461 |
| LSF11 A5 HoldCo, LLC 144A sr. unsec. | | | |
| notes 6.625%, 10/15/29 | | 400,000 | 334,080 |
| Mauser Packaging Solutions Holding | | | |
| Co. 144A company guaranty notes | | | |
| 9.25%, 4/15/27 | | 255,000 | 235,365 |
| Mauser Packaging Solutions Holding | | 250.000 | 247720 |
| Co. 144A sr. notes 7.875%, 8/15/26 | | 350,000 | 347,728 |
| Mercer International, Inc. sr. unsec. notes 5.125%, 2/1/29 (Canada) | | 275,000 | 214,009 |
| Novelis Corp. 144A company guaranty | | 213,000 | 214,009 |
| sr. unsec. bonds 3.875%, 8/15/31 | | 415,000 | 341,384 |
| Novelis Corp. 144A company guaranty | | 113,000 | 311,301 |
| sr. unsec. notes 4.75%, 1/30/30 | | 215,000 | 191,072 |
| Novelis Sheet Ingot GMBH company | | , | ,- <u>-</u> |
| guaranty sr. unsec. notes Ser. REGS, | | | |
| 3.375%, 4/15/29 (Germany) E | EUR | 100,000 | 95,463 |
| Olympus Water US Holding Corp. sr. | | | |
| notes Ser. REGS, 3.875%, 10/1/28 | EUR | 155,000 | 132,642 |
| Olympus Water US Holding Corp. | | | |
| 144A sr. notes 9.75%, 11/15/28 | | \$200,000 | 195,060 |
| Olympus Water US Holding Corp. | | 420.000 | 222.025 |
| 144A sr. notes 4.25%, 10/1/28 | | 430,000 | 339,935 |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|---|---------------------|------------|
| Basic materials cont. | | |
| Olympus Water US Holding Corp. | | |
| 144A sr. unsec. notes 6.25%, 10/1/29 | \$380,000 | \$274,854 |
| PMHC II, Inc. 144A sr. unsec. notes | | |
| 9.00%, 2/15/30 | 330,000 | 252,863 |
| SCIH Salt Holdings, Inc. 144A sr. notes 4.875%, 5/1/28 | 465,000 | 415,248 |
| SCIH Salt Holdings, Inc. 144A sr. | | |
| unsec. notes 6.625%, 5/1/29 | 415,000 | 347,706 |
| TMS International Holding Corp. 144A | 405.000 | |
| sr. unsec. notes 6.25%, 4/15/29 | 405,000 | 340,200 |
| Trinseo Materials Operating SCA/ | | |
| Trinseo Materials Finance, Inc. 144A company guaranty sr. unsec. notes | | |
| 5.125%, 4/1/29 (Luxembourg) | 310,000 | 143,375 |
| Tronox, Inc. 144A company guaranty | , | |
| sr. unsec. notes 4.625%, 3/15/29 | 350,000 | 290,862 |
| Univar Solutions USA, Inc. 144A | | |
| company guaranty sr. unsec. notes | | |
| 5.125%, 12/1/27 | 380,000 | 388,480 |
| WR Grace Holdings, LLC 144A | | |
| company guaranty sr. notes | | |
| 4.875%, 6/15/27 | 185,000 | 171,575 |
| WR Grace Holdings, LLC 144A sr. notes | 255,000 | 247000 |
| 7.375%, 3/1/31 | 355,000 | 347,900 |
| WR Grace Holdings, LLC 144A sr. unsec. notes 5.625%, 8/15/29 | 330,000 | 270,369 |
| unsec. notes 3.02370, 6/13/29 | 330,000 | 14,352,169 |
| Broadcasting (2.0%) | | 14,332,103 |
| Beasley Mezzanine Holdings, LLC | | |
| 144A company guaranty sr. notes | | |
| 8.625%, 2/1/26 | 305,000 | 200,288 |
| Gray Escrow II, Inc. 144A sr. unsec. | | |
| bonds 5.375%, 11/15/31 | 710,000 | 470,579 |
| HeartCommunications, Inc. | | |
| company guaranty sr. unsec. notes 8.375%, 5/1/27 | 272 560 | 240 100 |
| Scripps Escrow II, Inc. 144A sr. notes | 372,569 | 248,198 |
| 3.875%, 1/15/29 | 160,000 | 129,190 |
| Sirius XM Radio, Inc. 144A company | 100,000 | 123,130 |
| guaranty sr. unsec. bonds | | |
| 3.875%,9/1/31 | 350,000 | 270,652 |
| Sirius XM Radio, Inc. 144A | | |
| company guaranty sr. unsec. notes | | |
| 4.00%, 7/15/28 | 330,000 | 286,728 |
| Spanish Broadcasting System, Inc. | | |
| 144A sr. notes 9.75%, 3/1/26 | 170,000 | 116,531 |
| Townsquare Media, Inc. 144A sr. notes | 225.000 | 224722 |
| 6.875%,2/1/26 | 235,000 | 224,732 |
| Univision Communications, Inc. 144A company guaranty sr. notes | | |
| 6.625%, 6/1/27 | 340,000 | 328,627 |
| Univision Communications, Inc. 144A | 3 10,000 | 520,021 |
| sr. notes 7.375%, 6/30/30 | 380,000 | 361,805 |
| Urban One, Inc. 144A company | , | , |
| guaranty sr. notes 7.375%, 2/1/28 | 275,000 | 239,561 |
| | | 2,876,891 |
| Building materials (2.1%) | | |
| American Builders & Contractors | | |
| Supply Co., Inc. 144A sr. notes | .== | a . · == |
| 4.00%, 1/15/28 | 375,000 | 341,759 |
| American Builders & Contractors | | |
| Supply Co., Inc. 144A sr. unsec. notes | 295,000 | 251 021 |
| 3.875%, 11/15/29 | | 251,831 |

| CORPORATE BONDS AND NOTES (81.5%)* co | nt. | Principal amount | Value |
|--|-----|---------------------|-----------|
| Building materials cont. | | | |
| BCPE Ulysses Intermediate, Inc. 144A | | | |
| sr. unsec. notes 7.75%, 4/1/27 ‡‡ | | \$100,000 | \$88,051 |
| Camelot Return Merger Sub, Inc. 144A | | | |
| sr. notes 8.75%, 8/1/28 | | 205,000 | 193,724 |
| JELD-WEN, Inc. 144A company | | | |
| guaranty sr. unsec. notes | | 270.000 | 220 126 |
| 4.875%, 12/15/27 LBM Acquisition, LLC 144A | | 270,000 | 239,126 |
| company guaranty sr. unsec. notes | | | |
| 6.25%, 1/15/29 | | 250,000 | 206,813 |
| Masonite International Corp. 144A | | | |
| company guaranty sr. unsec. notes | | | |
| 5.375%, 2/1/28 | | 125,000 | 119,153 |
| Masonite International Corp. 144A | | | |
| company guaranty sr. unsec. notes | | 225.000 | 272.000 |
| 3.50%, 2/15/30 | | 325,000 | 272,998 |
| MIWD Holdco II, LLC/MIWD Finance Corp. 144A company guaranty sr. | | | |
| unsec. notes 5.50%, 2/1/30 | | 170,000 | 140,250 |
| Standard Industries, Inc. sr. unsec. | | 1.0,000 | 110,200 |
| notes Ser. REGS, 2.25%, 11/21/26 | EUR | 100,000 | 96,683 |
| Standard Industries, Inc. 144A sr. | | | |
| unsec. bonds 3.375%, 1/15/31 | | \$220,000 | 177,110 |
| Standard Industries, Inc. 144A sr. | | | |
| unsec. notes 5.00%, 2/15/27 | | 210,000 | 200,140 |
| Standard Industries, Inc. 144A sr. | | 20.000 | 07.007 |
| unsec. notes 4.75%, 1/15/28 | | 30,000 | 27,937 |
| Standard Industries, Inc. 144A sr. unsec. notes 4.375%, 7/15/30 | | 395,000 | 342,108 |
| White Cap Buyer, LLC 144A sr. unsec. | | 333,000 | 3 12,100 |
| notes 6.875%, 10/15/28 | | 235,000 | 212,969 |
| | | | 2,910,652 |
| Capital goods (9.1%) | | | |
| Adient Global Holdings, Ltd. company | | | |
| guaranty sr. unsec. unsub. notes | EUR | 22 000 | 25 121 |
| Ser. REGS, 3.50%, 8/15/24 Adient Global Holdings, Ltd. 144A sr. | EUR | 32,880 | 35,131 |
| notes 7.00%, 4/15/28 | | \$200,000 | 202,000 |
| Allison Transmission, Inc. 144A | | 9200,000 | 202,000 |
| company guaranty sr. unsec. bonds | | | |
| 3.75%, 1/30/31 | | 515,000 | 435,057 |
| Allison Transmission, Inc. 144A | | | |
| company guaranty sr. unsec. notes | | | |
| 4.75%, 10/1/27 | | 61,000 | 57,483 |
| Amsted Industries, Inc. 144A | | | |
| company guaranty sr. unsec. sub. notes 5.625%, 7/1/27 | | 100,000 | 96,719 |
| Amsted Industries, Inc. 144A sr. unsec. | | 100,000 | 30,113 |
| bonds 4.625%, 5/15/30 | | 225,000 | 200,693 |
| ARD Finance SA 144A sr. notes | | | |
| Ser. REGS, 6.50%, 6/30/27 (Ireland) ‡‡ | | 200,000 | 162,029 |
| Ardagh Metal Packaging Finance USA, | | | |
| LLC/Ardagh Metal Packaging Finance | | | |
| PLC sr. unsec. notes Ser. REGS, | | | |
| 3.00%, 9/1/29 | EUR | 100,000 | 80,877 |
| Ardagh Metal Packaging Finance | | | |
| USA, LLC/Ardagh Metal Packaging Finance PLC 144A sr. unsec. notes | | | |
| 4.00%, 9/1/29 | | \$200,000 | 158,399 |
| Ball Corp. company guaranty sr. | | , , , , , , , , | |
| unsec. notes 6.00%, 6/15/29 | | 30,000 | 29,700 |
| Berry Global, Inc. 144A company | | | |
| guaranty notes 5.625%, 7/15/27 | | 150,000 | 146,813 |

| CORPORATE BONDS AND NOTES (81.5%)* c | cont. | Principal amount | Value |
|---|-------|---------------------|-----------|
| Capital goods cont. | | | |
| Bombardier, Inc. 144A sr. unsec. notes | | | |
| 7.875%, 4/15/27 (Canada) | | \$200,000 | \$199,485 |
| Bombardier, Inc. 144A sr. unsec. notes | | | |
| 7.125%, 6/15/26 (Canada) | | 200,000 | 198,653 |
| Chart Industries, Inc. 144A company guaranty sr. notes 7.50%, 1/1/30 | | 335,000 | 341,785 |
| Chart Industries, Inc. 144A | | 333,000 | 3 11,103 |
| company guaranty sr. unsec. notes | | | |
| 9.50%, 1/1/31 | | 255,000 | 270,558 |
| Clarios Global LP 144A company | | 477.000 | 477.000 |
| guaranty sr. notes 6.75%, 5/15/25 Clarios Global LP 144A sr. notes | | 477,000 | 477,292 |
| 6.75%, 5/15/28 | | 70,000 | 69,755 |
| Clarios Global LP/Clarios US Finance | | , | , |
| Co. company guaranty sr. notes | | | |
| Ser. REGS, 4.375%, 5/15/26 | EUR | 115,000 | 119,381 |
| Clean Harbors, Inc. 144A company | | | |
| guaranty sr. unsec. unsub. notes 6.375%, 2/1/31 | | \$165,000 | 166,033 |
| Covanta Holding Corp. 144A | | \$105,000 | 100,033 |
| company guaranty sr. unsec. notes | | | |
| 4.875%, 12/1/29 | | 405,000 | 350,325 |
| Crown Cork & Seal Co., Inc. | | | |
| company guaranty sr. unsec. bonds | | 155,000 | 160 225 |
| 7.375%, 12/15/26 Emerald Debt Merger Sub, LLC 144A | | 155,000 | 160,235 |
| sr. notes 6.625%, 12/15/30 | | 330,000 | 326,288 |
| GFL Environmental, Inc. 144A | | , | |
| company guaranty sr. notes 3.50%, | | | |
| 9/1/28 (Canada) | | 250,000 | 222,496 |
| GFL Environmental, Inc. 144A | | | |
| company guaranty sr. unsec. notes 4.75%, 6/15/29 (Canada) | | 310,000 | 283,220 |
| GFL Environmental, Inc. 144A | | 010,000 | 200,220 |
| company guaranty sr. unsec. notes | | | |
| 4.00%, 8/1/28 (Canada) | | 70,000 | 62,584 |
| Great Lakes Dredge & Dock Corp. 144A | | | |
| company guaranty sr. unsec. notes 5.25%, 6/1/29 | | 770,000 | 643,127 |
| Howmet Aerospace, Inc. sr. unsec. | | 110,000 | 073,121 |
| unsub. bonds 5.95%, 2/1/37 | | 200,000 | 203,609 |
| Howmet Aerospace, Inc. sr. unsec. | | | |
| unsub. notes 3.00%, 1/15/29 | | 455,000 | 397,675 |
| Madison IAQ, LLC 144A sr. notes | | 00.000 | 70 227 |
| 4.125%, 6/30/28 Madison IAQ, LLC 144A sr. unsec. | | 90,000 | 79,227 |
| notes 5.875%, 6/30/29 | | 490,000 | 396,855 |
| MajorDrive Holdings IV, LLC 144A sr. | | , | |
| unsec. notes 6.375%, 6/1/29 | | 555,000 | 440,681 |
| Owens-Brockway Glass Container, | | | |
| Inc. 144A company guaranty sr. | | 420.000 | 425.250 |
| unsec. notes 7.25%, 5/15/31 Panther BF Aggregator 2 LP/Panther | | 420,000 | 425,250 |
| Finance Co., Inc. 144A company | | | |
| guaranty sr. unsec. notes | | | |
| 8.50%, 5/15/27 | | 130,000 | 130,213 |
| Ritchie Bros Holdings, Inc. 144A | | | |
| company guaranty sr. notes 6.75%, 3/15/28 | | 115 000 | 116 150 |
| Ritchie Bros Holdings, Inc. 144A | | 115,000 | 116,150 |
| company guaranty sr. unsec. unsub. | | | |
| notes 7.75%, 3/15/31 | | 220,000 | 228,800 |
| | | | |

| CORPORATE BONDS AND NOTES (81.5%)* co | Principal amount | Value |
|--|------------------|------------------------------|
| Capital goods cont. | | |
| Roller Bearing Co. of America, Inc. | | |
| 144A sr. notes 4.375%, 10/15/29 | \$400,000 | \$358,363 |
| Sensata Technologies BV 144A | | |
| company guaranty sr. unsec. notes 4.00%, 4/15/29 | 575,000 | 511,914 |
| Sensata Technologies BV 144A | | |
| company guaranty sr. unsec. unsub. notes 5.875%, 9/1/30 | 490,000 | 476,420 |
| Staples, Inc. 144A sr. notes 7.50%, 4/15/26 | 240,000 | 198,219 |
| Terex Corp. 144A company guaranty sr. unsec. notes 5.00%, 5/15/29 | 335,000 | 311,443 |
| TransDigm, Inc. company guaranty sr. | | |
| unsec. sub. notes 6.375%, 6/15/26 | 260,000 | 256,622 |
| TransDigm, Inc. company guaranty sr. unsec. sub. notes 5.50%, 11/15/27 | 210,000 | 198,072 |
| TransDigm, Inc. company guaranty sr. | | |
| unsec. sub. notes 4.875%, 5/1/29 | 470,000 | 419,834 |
| TransDigm, Inc. company guaranty sr. unsec. sub. notes 4.625%, 1/15/29 | 245,000 | 217,942 |
| TransDigm, Inc. 144A sr. notes | | |
| 6.75%, 8/15/28 | 355,000 | 355,888 |
| Vertical Midco GMBH company | | |
| guaranty sr. notes Ser. REGS, 4.375%, 7/15/27 (Germany) | EUR 310,000 | 301,536 |
| Vertiv Group Corp. 144A company guaranty sr. notes 4.125%, 11/15/28 | \$590,000 | 531,574 |
| Waste Pro USA, Inc. 144A sr. unsec. | | |
| notes 5.50%, 2/15/26 | 110,000 | 101,970 |
| WESCO Distribution, Inc. 144A company guaranty sr. unsec. unsub. | 675,000 | C00 F30 |
| notes 7.25%, 6/15/28 | 675,000 | 688,538 12,842,913 |
| Commercial and consumer services (3.0%) |) | 12,042,913 |
| ADT Security Corp. 144A sr. notes 4.125%, 8/1/29 | 305,000 | 263,444 |
| Allied Universal Holdco LLC/Allied | , | |
| Universal Finance Corp. 144Asr. unsec. notes 6.00%, 6/1/29 | 340,000 | 250,888 |
| Allied Universal Holdco LLC/Allied | | |
| Universal Finance Corp./Atlas Luxco 4 SARL sr. notes Ser. REGS, | | |
| 3.625%, 6/1/28 | EUR 185,000 | 160,934 |
| Benteler International AG 144A | | |
| company guaranty sr. notes 10.50%, 5/15/28 (Austria) | \$470,000 | 471,175 |
| Block, Inc. sr. unsec. notes 3.50%, 6/1/31 | 580,000 | 480,369 |
| Carriage Services, Inc. 144A | | |
| company guaranty sr. unsec. notes 4.25%, 5/15/29 | 235,000 | 202,265 |
| Garda World Security Corp. 144A sr. notes 7.75%, 2/15/28 (Canada) | 80,000 | 79,400 |
| Garda World Security Corp. 144A sr. unsec. notes 6.00%, 6/1/29 (Canada) | 105,000 | 86,043 |
| Gartner, Inc. 144A company guaranty | 103,000 | 30,0 13 |
| sr. unsec. bonds 3.75%, 10/1/30 | 395,000 | 344,013 |
| GW B-CR Security Corp. 144Asr. unsec. notes 9.50%, 11/1/27 (Canada) | 273,000 | 263,743 |
| Neptune Bidco US, Inc. 144A sr. notes | | |
| 9.29%, 4/15/29 | 515,000 | 472,776 |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value | CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|--|---------------------|-----------|--|---------------------|-----------|
| Commercial and consumer services cont. | | | Communication services cont. | | |
| Prime Security Services Borrower, | | | Level 3 Financing, Inc. 144A | | |
| LLC/Prime Finance, Inc. 144A | | | company guaranty sr. unsec. notes | | |
| company guaranty sr. notes | | | 4.25%, 7/1/28 | \$295,000 | \$189,940 |
| 3.375%, 8/31/27 | \$165,000 | \$145,526 | Sprint Capital Corp. company | | |
| Prime Security Services Borrower, | | | guaranty sr. unsec. unsub. notes | | |
| LLC/Prime Finance, Inc. 144A notes | | | 6.875%, 11/15/28 | 315,000 | 333,898 |
| 6.25%, 1/15/28 | 310,000 | 290,408 | T-Mobile USA, Inc. company guaranty | | |
| Sabre GLBL, Inc. 144A company | | | sr. unsec. bonds 2.875%, 2/15/31 | 230,000 | 194,410 |
| guaranty sr. notes 7.375%, 9/1/25 | 230,000 | 204,150 | Virgin Media Finance PLC 144A | | |
| Shift4 Payments, LLC/Shift4 | | | sr. unsec. bonds 5.00%, 7/15/30 | | |
| Payments Finance Sub, Inc. 144A | | | (United Kingdom) | 200,000 | 159,219 |
| company guaranty sr. unsec. notes | 475.000 | 445 441 | VZ Secured Financing BV 144A sr. | | |
| 4.625%, 11/1/26 | 475,000 | 445,441 | notes 5.00%, 1/15/32 (Netherlands) | 240,000 | 196,500 |
| Communication services (4.2%) | | 4,160,575 | Ziggo Bond Co. BV 144A sr. unsec. | | |
| Altice Financing SA 144A company | | | notes 6.00%, 1/15/27 (Netherlands) | 420,000 | 385,485 |
| guaranty sr. notes 5.00%, 1/15/28 | | | Consumer (0.7%) | | 5,961,416 |
| (Luxembourg) | 205,000 | 163,829 | | | |
| Altice France SA 144A company | 200,000 | 100,020 | Scotts Miracle-Gro Co. (The) company guaranty sr. unsec. notes | | |
| guaranty sr. notes 5.50%, | | | 4.50%, 10/15/29 | 540.000 | 464,003 |
| 10/15/29 (France) | 230,000 | 164,483 | Scotts Miracle-Gro Co. (The) company | 340,000 | 404,003 |
| Altice France SA 144A company | , | | guaranty sr. unsec. unsub. bonds | | |
| guaranty sr. notes 5.50%, | | | 4.375%, 2/1/32 | 175,000 | 137,792 |
| 1/15/28 (France) | 400,000 | 302,043 | Spectrum Brands, Inc. 144A | 1.0,000 | 101,102 |
| Altice France SA 144A company | | | company guaranty sr. unsec. bonds | | |
| guaranty sr. notes 5.125%, | | | 5.00%, 10/1/29 | 455,000 | 406,122 |
| 7/15/29 (France) | 280,000 | 198,765 | | | 1,007,917 |
| CCO Holdings, LLC/CCO Holdings | | | Consumer staples (3.9%) | | , , |
| Capital Corp. sr. unsec. bonds | | | 1011778 BC ULC/New Red | | |
| 4.50%, 5/1/32 | 340,000 | 271,475 | Finance, Inc. 144A bonds 4.00%, | | |
| CCO Holdings, LLC/CCO Holdings | | | 10/15/30 (Canada) | 590,000 | 504,941 |
| Capital Corp. 144A sr. unsec. bonds | | | 1011778 BC ULC/New Red Finance, | | |
| 5.375%,6/1/29 | 565,000 | 510,814 | Inc. 144A company guaranty notes | | |
| CCO Holdings, LLC/CCO Holdings | | | 4.375%, 1/15/28 (Canada) | 445,000 | 410,812 |
| Capital Corp. 144A sr. unsec. bonds | F 40 000 | 461 745 | Albertsons Cos., Inc./Safeway, Inc./ | | |
| 4.75%, 3/1/30 | 540,000 | 461,745 | New Albertsons LP/Albertsons, LLC | | |
| CCO Holdings, LLC/CCO Holdings | | | 144A company guaranty sr. unsec. | 00.000 | 92.000 |
| Capital Corp. 144A sr. unsec. notes 4.25%, 2/1/31 | 330,000 | 266,960 | notes 4.875%, 2/15/30 Albertsons Cos., Inc./Safeway, Inc./ | 90,000 | 83,090 |
| | 330,000 | 200,900 | New Albertsons LP/Albertsons, LLC | | |
| CSC Holdings, LLC 144A company guaranty sr. unsec. notes | | | 144A company guaranty sr. unsec. | | |
| 5.375%, 2/1/28 | 300,000 | 241,062 | notes 4.625%, 1/15/27 | 215,000 | 203,713 |
| CSC Holdings, LLC 144A sr. unsec. | 000,000 | 211,002 | Albertsons Cos., LLC/Safeway, Inc./ | | |
| bonds 5.75%, 1/15/30 | 405,000 | 191,229 | New Albertsons LP/Albertsons, LLC | | |
| DISH DBS Corp. company guaranty sr. | , | | 144A company guaranty sr. unsec. | | |
| unsec. notes 7.75%, 7/1/26 | 160,000 | 98,074 | notes 7.50%, 3/15/26 | 365,000 | 371,187 |
| DISH DBS Corp. company guaranty sr. | | | Aramark Services, Inc. 144A | | |
| unsec. unsub. notes 5.125%, 6/1/29 | 345,000 | 160,199 | company guaranty sr. unsec. notes | | |
| DISH DBS Corp. 144A company | | | 5.00%, 2/1/28 | 435,000 | 410,005 |
| guaranty sr. notes 5.75%, 12/1/28 | 300,000 | 223,135 | CDW, LLC/CDW Finance Corp. | | |
| DISH DBS Corp. 144A company | | | company guaranty sr. unsec. notes | | |
| guaranty sr. notes 5.25%, 12/1/26 | 165,000 | 132,358 | 3.25%, 2/15/29 | 330,000 | 282,755 |
| Embarg Corp. sr. unsec. unsub. bonds | | | Fertitta Entertainment, LLC/Fertitta | | |
| 7.995%, 6/1/36 | 530,000 | 320,348 | Entertainment Finance Co., Inc. | | |
| Frontier Communications Corp. | | | 144A company guaranty sr. notes | 150,000 | 101.005 |
| 144A company guaranty sr. notes | | | 4.625%, 1/15/29 | 150,000 | 131,625 |
| 5.875%, 10/15/27 | 450,000 | 412,992 | Fertitta Entertainment, LLC/Fertitta | | |
| Frontier Communications Holdings, | | | Entertainment Finance Co., Inc. 144A | | |
| LLC 144A company guaranty sr. notes | | | company guaranty sr. unsec. notes 6.75%, 1/15/30 | 215 000 | 182,973 |
| 8.75%, 5/15/30 | 240,000 | 234,570 | | 215,000 | 102,313 |
| Level 3 Financing, Inc. 144A company | | | Herc Holdings, Inc. 144A company guaranty sr. unsec. notes | | |
| guaranty sr. notes 10.50%, 5/15/30 | 145,750 | 147,883 | 5.50%, 7/15/27 | 500,000 | 479,074 |
| | | | , .,,, | 200,000 | , |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|--|---------------------|-----------|
| Consumer staples cont. | | |
| IRB Holding Corp. 144A company | | |
| guaranty sr. notes 7.00%, 6/15/25 | \$325,000 | \$326,625 |
| Lamb Weston Holdings, Inc. 144A | | |
| company guaranty sr. unsec. notes 4.125%, 1/31/30 | 395,000 | 353,017 |
| Match Group Holdings II, LLC 144A sr. unsec. bonds 5.00%, 12/15/27 | 74,000 | 68,629 |
| Match Group Holdings II, LLC 144A sr. unsec. bonds 3.625%, 10/1/31 | 145,000 | 119,181 |
| Match Group Holdings II, LLC 144A sr. unsec. notes 4.125%, 8/1/30 | 70,000 | 59,955 |
| Match Group Holdings II, LLC 144A sr. unsec. unsub. notes 4.625%, 6/1/28 | 500,000 | 459,300 |
| Newell Brands, Inc. sr. unsec. unsub. notes 4.70%, 4/1/26 | 175,000 | 164,386 |
| PECF USS Intermediate Holding | , | |
| III Corp. 144A sr. unsec. notes 8.00%, 11/15/29 | 520,000 | 292,500 |
| TripAdvisor, Inc. 144A company | , | |
| guaranty sr. unsec. notes | | |
| 7.00%, 7/15/25 | 300,000 | 300,000 |
| US Foods, Inc. 144A company | | |
| guaranty sr. unsec. notes 4.75%, 2/15/29 | 215,000 | 196,843 |
| Yum! Brands, Inc. sr. unsec. bonds | | |
| 5.375%, 4/1/32 | 155,000 | 147,321 |
| Energy (oil field) (0.7%) | | 5,547,932 |
| Nabors Industries, Inc. company | | |
| guaranty sr. unsec. notes | | |
| 5.75%, 2/1/25 | 195,000 | 188,705 |
| Nabors Industries, Inc. 144A | | |
| company guaranty sr. unsec. notes 7.375%, 5/15/27 | 280,000 | 266,428 |
| USA Compression Partners LP/ | 200,000 | 200,120 |
| USA Compression Finance Corp. | | |
| company guaranty sr. unsec. notes | | |
| 6.875%,4/1/26 | 230,000 | 225,307 |
| USA Compression Partners LP/USA | | |
| Compression Finance Corp. company guaranty sr. unsec. unsub. notes | | |
| 6.875%, 9/1/27 | 300,000 | 286,468 |
| | | 966,908 |
| Entertainment (1.7%) | | |
| AMC Entertainment Holdings, Inc. | | |
| 144A company guaranty sr. notes 7.50%, 2/15/29 | 145,000 | 101,954 |
| CDI Escrow Issuer, Inc. 144A sr. unsec. | 143,000 | 101,334 |
| notes 5.75%, 4/1/30 | 380,000 | 352,925 |
| Cinemark USA, Inc. 144A company | | |
| guaranty sr. unsec. notes | | |
| 5.875%, 3/15/26 | 275,000 | 260,906 |
| Cinemark USA, Inc. 144A company guaranty sr. unsec. notes | | |
| 5.25%, 7/15/28 | 370,000 | 325,458 |
| Live Nation Entertainment, Inc. 144A | - , | -, -, |
| company guaranty sr. unsec. sub. notes 5.625%, 3/15/26 | 205,000 | 200,246 |
| Live Nation Entertainment, Inc. 144A | | · |
| sr. notes 6.50%, 5/15/27 | 160,000 | 160,852 |
| NCL Corp., Ltd. 144A company | 135,000 | 121 200 |
| guaranty sr. notes 5.875%, 2/15/27 NCL Corp., Ltd. 144A sr. unsec. unsub. | 135,000 | 131,288 |
| notes 7.75%, 2/15/29 | 100,000 | 94,750 |
| | | |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|--|---------------------|-----------|
| Entertainment cont. | amount | value |
| Royal Caribbean Cruises, Ltd. 144A | | |
| company guaranty sr. unsec. notes | | |
| 7.25%, 1/15/30 | \$205,000 | \$207,633 |
| Royal Caribbean Cruises, Ltd. 144A | | |
| company guaranty sr. unsec. unsub. | 210.000 | 220.270 |
| notes 9.25%, 1/15/29 Royal Caribbean Cruises, Ltd. 144A sr. | 310,000 | 330,278 |
| unsec. notes 5.50%, 8/31/26 | 210,000 | 199,103 |
| Royal Caribbean Cruises, Ltd. 144A sr. | | |
| unsec. notes 4.25%, 7/1/26 | 75,000 | 68,846 |
| Financials (6.3%) | | 2,434,239 |
| AG Issuer, LLC 144A sr. notes | | |
| 6.25%, 3/1/28 | 275,000 | 261,870 |
| Alliant Holdings Intermediate, LLC/ | | |
| Alliant Holdings Co-Issuer 144A sr. | | |
| unsec. notes 6.75%, 10/15/27 | 390,000 | 366,600 |
| Ally Financial, Inc. company guaranty sr. unsec. notes 8.00%, 11/1/31 | 235,000 | 243,958 |
| Aretec Escrow Issuer, Inc. 144A sr. | 233,000 | 243,330 |
| unsec. notes 7.50%, 4/1/29 | 305,000 | 264,462 |
| Bank of America Corp. jr. | | |
| unsec. sub. FRN Ser. AA, 6.10%, | | |
| perpetual maturity | 140,000 | 138,810 |
| Bank of America Corp. jr. unsec. sub. | 120.000 | 120.620 |
| FRN Ser. Z, 6.50%, perpetual maturity CNO Financial Group, Inc. sr. unsec. | 130,000 | 129,639 |
| notes 5.25%, 5/30/29 | 210,000 | 198,657 |
| Cobra AcquisitionCo, LLC 144A | ., | , |
| company guaranty sr. unsec. notes | | |
| 6.375%, 11/1/29 | 360,000 | 253,800 |
| Dresdner Funding Trust I 144A jr. | 150,000 | 150 700 |
| unsec. sub. notes 8.151%, 6/30/31 Ford Motor Co. sr. unsec. unsub. notes | 150,000 | 159,708 |
| 3.625%, 6/17/31 | 245,000 | 200,808 |
| Ford Motor Credit Co., LLC sr. unsec. | ., | , |
| unsub. notes 4.271%, 1/9/27 | 270,000 | 249,931 |
| Ford Motor Credit Co., LLC sr. unsec. | | |
| unsub. notes 2.90%, 2/16/28 | 220,000 | 188,407 |
| Ford Motor Credit Co., LLC sr. unsec. unsub. notes 4.00%, 11/13/30 | 200.000 | 170 017 |
| Freedom Mortgage Corp. 144A sr. | 200,000 | 170,917 |
| unsec. notes 8.25%, 4/15/25 | 231,000 | 225,228 |
| Freedom Mortgage Corp. 144Asr. | | , |
| unsec. notes 7.625%, 5/1/26 | 235,000 | 216,320 |
| Freedom Mortgage Corp. 144Asr. | | |
| unsec. notes 6.625%, 1/15/27 | 175,000 | 151,518 |
| goeasy, Ltd. 144A company guaranty sr. unsec. notes 5.375%, | | |
| 12/1/24 (Canada) | 100,000 | 97,011 |
| goeasy, Ltd. 144A company | | |
| guaranty sr. unsec. notes 4.375%, | | |
| 5/1/26 (Canada) | 195,000 | 177,860 |
| HUB International, Ltd. 144A sr. notes | 205.000 | 211 (02 |
| 7.25%, 6/15/30 HUB International, Ltd. 144A sr. unsec. | 205,000 | 211,683 |
| notes 7.00%, 5/1/26 | 335,000 | 334,114 |
| HUB International, Ltd. 144A sr. unsec. | , | , |
| notes 5.625%, 12/1/29 | 100,000 | 89,708 |
| Icahn Enterprises LP/Icahn | | |
| Enterprises Finance Corp. | | |
| company guaranty sr. unsec. notes 6.25%, 5/15/26 | 365,000 | 332,192 |
| 0.20 /0,0/10/20 | 555,000 | JJZ,1JZ |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|---|---------------------|-----------|
| Financials cont. | | |
| Icahn Enterprises LP/Icahn | | |
| Enterprises Finance Corp. | | |
| company guaranty sr. unsec. notes 5.25%, 5/15/27 | \$250,000 | \$215,600 |
| Icahn Enterprises LP/Icahn | | |
| Enterprises Finance Corp. company | | |
| guaranty sr. unsec. sub. notes 4.375%, 2/1/29 | 165,000 | 129,641 |
| Ladder Capital Finance Holdings, LLLP/Ladder Capital Finance Corp. | | |
| 144A company guaranty sr. unsec. notes 4.75%, 6/15/29 R | 275,000 | 223,805 |
| Ladder Capital Finance Holdings, | | |
| LLLP/Ladder Capital Finance Corp. 144A sr. unsec. notes 4.25%, 2/1/27 R | 305,000 | 265,018 |
| Lloyds Banking Group PLC jr. unsec. | 303,000 | 205,016 |
| sub. FRB 7.50%, perpetual maturity (United Kingdom) | 328,000 | 313,322 |
| Nationstar Mortgage Holdings, Inc. | | |
| 144A company guaranty sr. unsec. notes 5.75%, 11/15/31 | 355,000 | 291,613 |
| Nationstar Mortgage Holdings, Inc. | , | , |
| 144A company guaranty sr. unsec. | | |
| notes 5.50%, 8/15/28 | 390,000 | 341,619 |
| OneMain Finance Corp. company | | |
| guaranty sr. unsec. sub. notes 7.125%, 3/15/26 | 160,000 | 157,199 |
| OneMain Finance Corp. company | 100,000 | 10.,100 |
| guaranty sr. unsec. sub. notes | | |
| 6.625%, 1/15/28 | 470,000 | 443,337 |
| OneMain Finance Corp. company | | |
| guaranty sr. unsec. unsub. notes 5.375%, 11/15/29 | 185,000 | 157,277 |
| PennyMacFinancial Services, Inc. | | |
| 144A company guaranty sr. unsec. notes 5.75%, 9/15/31 | 160,000 | 130,494 |
| PennyMac Financial Services, Inc. | | |
| 144A company guaranty sr. unsec. notes 5.375%, 10/15/25 | 305,000 | 288,225 |
| PHH Mortgage Corp. 144A company | | |
| guaranty sr. notes 7.875%, 3/15/26 | 520,000 | 464,464 |
| Service Properties Trust company guaranty sr. unsec. unsub. notes | | |
| 7.50%, 9/15/25 R | 120,000 | 117,840 |
| Societe Generale SA 144A jr. | , | |
| unsec. sub. FRN 4.75%, perpetual | | |
| maturity (France) | 255,000 | 201,129 |
| Societe Generale SA 144A jr. unsec. | | |
| sub. notes 5.375%, perpetual maturity (France) | 260,000 | 192,915 |
| USI, Inc./NY 144A sr. unsec. notes | 200,000 | 102,010 |
| 6.875%, 5/1/25 | 300,000 | 297,750 |
| Gaming and lottery (4.1%) | | 8,894,449 |
| Boyd Gaming Corp. 144A sr. unsec. bonds 4.75%, 6/15/31 | 710,000 | 634,281 |
| Caesars Entertainment, Inc. 144A sr. notes 7.00%, 2/15/30 | 435,000 | 436,844 |
| Caesars Entertainment, Inc. 144A sr. | . 30,000 | .50,511 |
| unsec. notes 4.625%, 10/15/29 | 325,000 | 283,793 |
| Caesars Resort Collection, LLC/CRC Finco, Inc. 144A company guaranty sr. | | |
| notes 5.75%, 7/1/25 | 545,000 | 551,444 |
| | , | |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|---|---------------------|-----------|
| Gaming and lottery cont. | | |
| Everi Holdings, Inc. 144A company | | |
| guaranty sr. unsec. notes | | |
| 5.00%, 7/15/29 | \$635,000 | \$556,108 |
| Las Vegas Sands Corp. sr. unsec. | | |
| unsub. notes 3.90%, 8/8/29 | 375,000 | 334,598 |
| Penn Entertainment, Inc. 144A sr. | | |
| unsec. notes 5.625%, 1/15/27 | 465,000 | 434,815 |
| Raptor Acquisition Corp./Raptor | | |
| Co-Issuer, LLC 144A sr. notes 4.875%, 11/1/26 | 105,000 | 98,963 |
| Scientific Games Holdings LP/ | 105,000 | 30,303 |
| Scientific Games US FinCo., Inc. 144A | | |
| sr. unsec. notes 6.625%, 3/1/30 | 205,000 | 180,400 |
| Scientific Games International, Inc. | | |
| 144A company guaranty sr. unsec. | | |
| notes 7.25%, 11/15/29 | 500,000 | 500,625 |
| Scientific Games International, Inc. | | |
| 144A sr. unsec. notes 7.00%, 5/15/28 | 145,000 | 144,226 |
| Station Casinos, LLC 144A sr. unsec. | | |
| bonds 4.625%, 12/1/31 | 360,000 | 303,300 |
| Station Casinos, LLC 144A sr. unsec. | | |
| notes 4.50%, 2/15/28 | 305,000 | 273,759 |
| Wynn Las Vegas, LLC/Wynn Las Vegas | | |
| Capital Corp. 144A company guaranty | | |
| sr. unsec. sub. notes 5.25%, 5/15/27 | 370,000 | 350,484 |
| Wynn Resorts Finance, LLC/Wynn | | |
| Resorts Capital Corp. 144A company | | |
| guaranty sr. unsec. unsub. notes 7.125%, 2/15/31 | 290,000 | 288,550 |
| Wynn Resorts Finance, LLC/Wynn | 250,000 | 200,330 |
| Resorts Capital Corp. 144A sr. unsec. | | |
| bonds 5.125%, 10/1/29 | 370,000 | 331,592 |
| | | 5,703,782 |
| Health care (7.2%) | | |
| 1375209 BC, Ltd. 144A sr. notes 9.00%, | | |
| 1/30/28 (Canada) | 33,000 | 33,083 |
| Air Methods Corp. 144A sr. unsec. | 425.000 | 2.262 |
| notes 8.00%, 5/15/25 | 435,000 | 3,263 |
| Bausch Health Cos., Inc. 144A | | |
| company guaranty sr. notes 6.125%, 2/1/27 | 225,000 | 144,045 |
| Bausch Health Cos., Inc. 144A sr. notes | 223,000 | 144,043 |
| 4.875%, 6/1/28 | 280,000 | 166,656 |
| Centene Corp. sr. unsec. bonds | 200,000 | 100,030 |
| 3.00%, 10/15/30 | 165,000 | 137,494 |
| Centene Corp. sr. unsec. notes | 100,000 | 131,131 |
| 4.625%, 12/15/29 | 285,000 | 262,325 |
| Charles River Laboratories | , | |
| International, Inc. 144A company | | |
| guaranty sr. unsec. notes | | |
| 4.00%, 3/15/31 | 160,000 | 138,400 |
| Charles River Laboratories | | |
| International, Inc. 144A company | | |
| guaranty sr. unsec. notes | 005 | 10 |
| 3.75%, 3/15/29 | 220,000 | 192,775 |
| CHS/Community Health Systems, | | |
| Inc. 144A company guaranty sr. notes | 105.000 | 100 000 |
| 8.00%, 3/15/26 | 105,000 | 102,280 |
| CHS/Community Health Systems, | | |
| Inc. 144A company guaranty sr. notes 6.00%, 1/15/29 | 35,000 | 29,444 |
| ,-,-,-,- | 55,000 | 23,111 |
| | | |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|---|---------------------|---------------------------------------|
| Health care cont. | | |
| CHS/Community Health Systems, | | |
| Inc. 144A company guaranty sr. notes | | |
| 5.625%, 3/15/27 | \$305,000 | \$268,778 |
| CHS/Community Health Systems, Inc. | | |
| 144A company guaranty sr. unsec. | | |
| sub. notes 6.875%, 4/1/28 | 240,000 | 140,873 |
| CHS/Community Health Systems, Inc. 144A jr. notes 6.875%, 4/15/29 | 200,000 | 124,904 |
| CHS/Community Health Systems, Inc. 144A sr. notes 5.25%, 5/15/30 | 155,000 | 122,098 |
| Elanco Animal Health, Inc. sr. unsec. notes Ser. WI, 6.65%, 8/28/28 | 515,000 | 499,689 |
| Fortrea Holdings, Inc. 144A company | | |
| guaranty sr. notes 7.50%, 7/1/30 | 40,000 | 40,959 |
| HCA, Inc. company guaranty sr. unsec. notes 3.50%, 9/1/30 | 650,000 | 569,757 |
| Jazz Securities DAC 144A company | | |
| guaranty sr. unsub. notes 4.375%, | | |
| 1/15/29 (Ireland) | 470,000 | 419,329 |
| Mallinckrodt International Finance SA/Mallinckrodt CB, LLC 144A | | |
| company guaranty unsub. notes | | |
| 10.00%, 4/15/25 (Luxembourg) | 426,000 | 71,860 |
| Minerva Merger Sub, Inc. 144A sr. | ,,,,,, | , |
| unsec. notes 6.50%, 2/15/30 | 440,000 | 370,322 |
| Mozart Debt Merger Sub, Inc. 144A sr. | | |
| notes 3.875%, 4/1/29 | 765,000 | 664,833 |
| Mozart Debt Merger Sub, Inc. 144A sr. | | |
| unsec. notes 5.25%, 10/1/29 | 325,000 | 282,002 |
| Option Care Health, Inc. 144A | | |
| company guaranty sr. unsec. notes 4.375%, 10/31/29 | 105,000 | 92,417 |
| Organon Finance 1, LLC 144A sr. notes 4.125%, 4/30/28 | 350,000 | 310,636 |
| Owens & Minor, Inc. 144A company | | |
| guaranty sr. unsec. notes | | |
| 6.625%, 4/1/30 | 250,000 | 226,815 |
| Owens & Minor, Inc. 144A sr. unsec. notes 4.50%, 3/31/29 | 175,000 | 145,318 |
| Service Corp. International sr. unsec. | | |
| bonds 5.125%, 6/1/29 | 535,000 | 504,088 |
| Service Corp. International sr. unsec. notes 3.375%, 8/15/30 | 225,000 | 188,168 |
| Service Corp. International sr. unsec. sub. notes 4.00%, 5/15/31 | 175,000 | 149,805 |
| Tenet Healthcare Corp. company guaranty sr. notes 5.125%, 11/1/27 | 370,000 | 353,230 |
| Tenet Healthcare Corp. company guaranty sr. notes 4.875%, 1/1/26 | 460,000 | 448,035 |
| Tenet Healthcare Corp. company | 400,000 | 440,033 |
| guaranty sr. notes 4.25%, 6/1/29 | 230,000 | 207,788 |
| Tenet Healthcare Corp. company | | |
| guaranty sr. unsub. notes 6.125%, 6/15/30 | 650,000 | 640,705 |
| Teva Pharmaceutical Finance | | |
| Netherlands III BV company guaranty sr. unsec. notes 6.75%, 3/1/28 (Israel) | 935,000 | 920,992 |
| Teva Pharmaceutical Finance | , | · · · · · · · · · · · · · · · · · · · |
| Netherlands III BV company guaranty | | |
| sr. unsec. unsub. notes 8.125%, 9/15/31 (Israel) | 270,000 | 282,488 |
| J, 1-J, 51 (ISI aCI) | 210,000 | 202,400 |

| CORPORATE BONDS AND NOTES (81.5%)* cont | Principal . amount | Value |
|---|-----------------------|------------|
| Health care cont. | | |
| Teva Pharmaceutical Finance Netherlands III BV company guaranty sr. unsec. unsub. notes 7.875%, | | |
| 9/15/29 (Israel) | \$200,000 | \$206,500 |
| Teva Pharmaceutical Finance Netherlands III BV company guaranty | | |
| sr. unsec. unsub. notes 5.125%, 5/9/29 (Israel) | 755,000 | 684,861 |
| 2,3,23 (3.23) | , | 10,147,015 |
| Homebuilding (0.9%) | | |
| Mattamy Group Corp. 144A sr. unsec. notes 4.625%, 3/1/30 (Canada) | 315,000 | 272,316 |
| PulteGroup, Inc. company guaranty sr. unsec. unsub. notes | | |
| 7.875%, 6/15/32 | 390,000 | 441,927 |
| Realogy Group, LLC/Realogy Co-Issuer Corp. 144A company | | |
| guaranty sr. unsec. notes 5.75%, 1/15/29 | 275,000 | 205,758 |
| Taylor Morrison Communities, Inc. 144A sr. unsec. bonds 5.125%, 8/1/30 | 250,000 | 230,825 |
| Taylor Morrison Communities, Inc. 144A sr. unsec. notes 5.75%, 1/15/28 | 155,000 | 149,873 |
| 11 1/101. dilisee. Hotes 3.13 /0, 1/13/20 | 133,000 | 1,300,699 |
| Lodging/Tourism (2.0%) | | |
| | EUR 130,000 | 148,630 |
| Carnival Corp. 144A company guaranty sr. unsec. unsub. notes 10.50%, 6/1/30 | \$45,000 | 47,739 |
| Carnival Corp. 144A notes 10.50%, 2/1/26 | 290,000 | 304,852 |
| Carnival Corp. 144A notes 9.875%, 8/1/27 | 140,000 | 145,829 |
| Carnival Corp. 144A sr. unsec. notes 5.75%, 3/1/27 | 395,000 | 363,633 |
| Carnival Holdings Bermuda, Ltd. 144A | | |
| company guaranty sr. unsec. unsub. notes 10.375%, 5/1/28 (Bermuda) | 60,000 | 65,624 |
| Full House Resorts, Inc. 144A company guaranty sr. notes | | |
| 8.25%, 2/15/28 | 515,000 | 482,030 |
| Hilton Domestic Operating Co., Inc. company guaranty sr. unsec. bonds 4.875%, 1/15/30 | 515,000 | 480,196 |
| Hilton Domestic Operating Co., Inc. | 010,000 | 100,200 |
| 144A company guaranty sr. unsec. notes 3.625%, 2/15/32 | 160,000 | 133,398 |
| Hilton Worldwide Finance, LLC/ | | |
| Hilton Worldwide Finance Corp. company guaranty sr. unsec. notes | 205,000 | 254.000 |
| 4.875%,4/1/27 SugarHouse HSP Gaming Prop. Mezz | 365,000 | 354,080 |
| LP/SugarHouse HSP Gaming Finance | | |
| Corp. 144A company guaranty sr. unsub. notes 5.875%, 5/15/25 | 370,000 | 357,050 |
| 4.1345.110(633.01370,3/13/23 | 310,000 | 2,883,061 |
| Media (0.2%) | | • |
| Warnermedia Holdings, Inc. company guaranty sr. unsec. notes | | |
| 4.279%, 3/15/32 | 315,000 | 279,366 |
| | | 279,366 |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value | CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|---|---------------------|-----------|---|---------------------|-----------|
| Oil and gas (11.2%) | | | Oil and gas cont. | | |
| Antero Midstream Partners LP/ | | | Hess Midstream Operations LP 144A | | |
| Antero Midstream Finance Corp. 144A | | | company guaranty sr. unsec. notes | | |
| company guaranty sr. unsec. notes | * | | 5.125%, 6/15/28 | \$345,000 | \$322,882 |
| 7.875%, 5/15/26 | \$190,000 | \$192,694 | Hess Midstream Operations LP 144A | | |
| Antero Resources Corp. 144A company guaranty sr. unsec. notes | | | company guaranty sr. unsec. notes 4.25%, 2/15/30 | 135,000 | 117,788 |
| 7.625%, 2/1/29 | 96,000 | 97,403 | Hess Midstream Operations LP 144A | 133,000 | 111,100 |
| Apache Corp. sr. unsec. unsub. notes | 30,000 | 31,100 | company guaranty sr. unsec. sub. | | |
| 5.10%, 9/1/40 | 165,000 | 134,063 | notes 5.625%, 2/15/26 | 340,000 | 334,475 |
| Apache Corp. sr. unsec. unsub. notes | | | Kinetik Holdings LP 144A company | | |
| 4.375%, 10/15/28 | 535,000 | 488,621 | guaranty sr. unsec. notes | | |
| Callon Petroleum Co. 144A | | | 5.875%, 6/15/30 | 370,000 | 351,681 |
| company guaranty sr. unsec. notes 8.00%, 8/1/28 | 255,000 | 252,172 | Occidental Petroleum Corp. sr. unsec. bonds 6.125%, 1/1/31 | 85,000 | 86,309 |
| Callon Petroleum Co. 144A | 255,000 | 232,112 | Occidental Petroleum Corp. sr. unsec. | 05,000 | 00,303 |
| company guaranty sr. unsec. notes | | | sub. bonds 6.20%, 3/15/40 | 890,000 | 877,175 |
| 7.50%,6/15/30 | 625,000 | 589,920 | Occidental Petroleum Corp. sr. unsec. | | |
| Centennial Resource Production, LLC | | | sub. notes 5.875%, 9/1/25 | 95,000 | 94,350 |
| 144A company guaranty sr. unsec. | | | Ovintiv, Inc. company guaranty sr. | | |
| notes 6.875%, 4/1/27 | 585,000 | 576,225 | unsec. bonds 6.25%, 7/15/33 | 155,000 | 152,881 |
| Cheniere Energy Partners LP company guaranty sr. unsec. | | | Ovintiv, Inc. company guaranty sr. | 200,000 | 270.025 |
| unsub. notes 4.00%, 3/1/31 | 435,000 | 383,013 | unsec. unsub. bonds 7.375%, 11/1/31 | 260,000 | 278,825 |
| Cheniere Energy Partners | , | 000,010 | Ovintiv, Inc. company guaranty sr. unsec. unsub. bonds 6.625%, 8/15/37 | 70,000 | 69,093 |
| LP company guaranty sr. unsec. | | | Patterson-UTI Energy, Inc. sr. unsec. | 10,000 | 03,033 |
| unsub. notes 3.25%, 1/31/32 | 35,000 | 28,793 | notes 3.95%, 2/1/28 | 55,000 | 49,284 |
| Chord Energy Corp. 144A company | | | Patterson-UTI Energy, Inc. sr. unsec. | | |
| guaranty sr. unsec. notes 6.375%, 6/1/26 | 175,000 | 173,491 | sub. notes 5.15%, 11/15/29 | 595,000 | 539,007 |
| Civitas Resources, Inc. 144A | 173,000 | 113,491 | Permian Resources Operating, LLC | | |
| company guaranty sr. unsec. notes | | | 144A company guaranty sr. unsec. notes 5.375%, 1/15/26 | 415,000 | 394,551 |
| 8.375%, 7/1/28 | 200,000 | 202,260 | Precision Drilling Corp. 144A company | 413,000 | 334,331 |
| Civitas Resources, Inc. 144A company | | | guaranty sr. unsec. notes 7.125%, | | |
| guaranty sr. unsec. unsub. notes | 200.000 | 205 200 | 1/15/26 (Canada) | 555,000 | 548,034 |
| 8.75%, 7/1/31 Comstock Resources, Inc. 144A | 390,000 | 395,382 | Rockcliff Energy II, LLC 144A sr. unsec. | | |
| company guaranty sr. unsec. notes | | | notes 5.50%, 10/15/29 | 595,000 | 548,861 |
| 5.875%, 1/15/30 | 355,000 | 308,201 | SM Energy Co. sr. unsec. notes | 14F 000 | 140 021 |
| Comstock Resources, Inc. 144A sr. | | | 6.625%, 1/15/27 SM Energy Co. sr. unsec. unsub. notes | 145,000 | 140,831 |
| unsec. notes 6.75%, 3/1/29 | 300,000 | 274,484 | 6.75%, 9/15/26 | 135,000 | 131,586 |
| Continental Resources, Inc. 144A | | | SM Energy Co. sr. unsec. unsub. notes | | |
| company guaranty sr. unsec. bonds | 405.000 | 461.060 | 6.50%, 7/15/28 | 280,000 | 268,800 |
| 5.75%, 1/15/31 DCP Midstream Operating LP 144A | 485,000 | 461,069 | SM Energy Co. sr. unsec. unsub. notes | | |
| company guaranty sr. unsec. unsub. | | | 5.625%, 6/1/25 | 120,000 | 117,263 |
| bonds 6.75%, 9/15/37 | 415,000 | 440,431 | Southwestern Energy Co. | | |
| Encino Acquisition Partners Holdings, | | | company guaranty sr. unsec. notes 5.375%, 3/15/30 | 350,000 | 326,621 |
| LLC 144A company guaranty sr. | | | Southwestern Energy Co. | 330,000 | 320,021 |
| unsec. notes 8.50%, 5/1/28 | 450,000 | 408,414 | company guaranty sr. unsec. notes | | |
| Endeavor Energy Resources LP/EER Finance, Inc. 144A sr. unsec. bonds | | | 5.375%,2/1/29 | 740,000 | 696,831 |
| 5.75%, 1/30/28 | 940,000 | 919,489 | Tallgrass Energy Partners LP/ | | |
| EnLink Midstream, LLC 144A | 3 10,000 | 313,103 | Tallgrass Energy Finance Corp. 144A | | |
| company guaranty sr. unsec. notes | | | company guaranty sr. unsec. notes 6.00%, 12/31/30 | 240,000 | 211,200 |
| 5.625%, 1/15/28 | 595,000 | 575,771 | Tallgrass Energy Partners LP/ | ۷,000 | Z11,ZUU |
| EQT Corp. sr. unsec. notes | 405 | 400 | Tallgrass Energy Finance Corp. 144A | | |
| 7.00%, 2/1/30 | 185,000 | 193,701 | company guaranty sr. unsec. notes | | |
| EQT Corp. sr. unsec. notes 5.00%, 1/15/29 | 35,000 | 32,952 | 5.50%, 1/15/28 | 260,000 | 237,575 |
| Hess Midstream Operations LP 144A | 55,000 | JZ,JJZ | Transocean Poseidon, Ltd. 144A | | |
| company guaranty sr. unsec. notes | | | company guaranty sr. notes 6.875%, 2/1/27 | 190,938 | 188,312 |
| 5.50%, 10/15/30 | 155,000 | 143,374 | | | |
| | | | | | |

| CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value | CORPORATE BONDS AND NOTES (81.5%)* cont. | Principal amount | Value |
|--|---------------------|------------|---|---------------------|-----------|
| Oil and gas cont. | | | Retail cont. | | |
| Transocean Titan Financing, Ltd. 144A | | | PetSmart, Inc./PetSmart Finance | | |
| company guaranty sr. notes 8.375%, | | | Corp. 144A company guaranty sr. | | |
| 2/1/28 (Cayman Islands) | \$155,000 | \$158,294 | unsec. notes 7.75%, 2/15/29 | \$265,000 | \$263,298 |
| Transocean, Inc. 144A company | | | Victoria's Secret & Co. 144A sr. unsec. | | |
| guaranty sr. notes 8.75%, 2/15/30 | 125,000 | 126,875 | notes 4.625%, 7/15/29 | 425,000 | 310,250 |
| Transocean, Inc. 144A company | | | | | 1,808,748 |
| guaranty sr. unsec. notes | | | Technology (5.6%) | | |
| 11.50%, 1/30/27 | 235,000 | 243,519 | Arches Buyer, Inc. 144A sr. notes | | 0.4.4.00= |
| Venture Global Calcasieu Pass, LLC | | | 4.25%,6/1/28 | 970,000 | 844,087 |
| 144A company guaranty sr. bonds | 00.000 | 70.700 | Arches Buyer, Inc. 144A sr. unsec. | 165.000 | 142.205 |
| 3.875%, 11/1/33 | 90,000 | 73,700 | notes 6.125%, 12/1/28 | 165,000 | 142,205 |
| Venture Global Calcasieu Pass, LLC | | | Boxer Parent Co., Inc. 144A company | 105.000 | 105 164 |
| 144A company guaranty sr. notes 6.25%, 1/15/30 | 65,000 | 64,476 | guaranty sr. notes 7.125%, 10/2/25 | 185,000 | 185,164 |
| | 65,000 | 04,470 | Central Parent, Inc./CDK Global, Inc. | | |
| Venture Global Calcasieu Pass, LLC | | | 144A company guaranty sr. notes 7.25%, 6/15/29 | 200,000 | 197,758 |
| 144A company guaranty sr. notes 3.875%, 8/15/29 | 130,000 | 113,567 | Clarivate Science Holdings Corp. 144A | 200,000 | 131,130 |
| Venture Global LNG, Inc. 144A sr. | 130,000 | 113,301 | sr. unsec. notes 4.875%, 7/1/29 | 460,000 | 408,069 |
| notes 8.375%, 6/1/31 | 365,000 | 367,981 | Cloud Software Group, Inc. 144A | +00,000 | +00,003 |
| Venture Global LNG, Inc. 144A sr. | 303,000 | 301,301 | notes 9.00%, 9/30/29 | 495,000 | 428,175 |
| notes 8.125%, 6/1/28 | 170,000 | 172,658 | Cloud Software Group, Inc. 144A sr. | 133,000 | 120,113 |
| Viper Energy Partners LP 144A | 110,000 | 112,000 | notes. 6.50%, 3/31/29 | 820,000 | 730,112 |
| company guaranty sr. unsec. notes | | | CommScope Finance, LLC 144A sr. | 020,000 | 730,112 |
| 5.375%, 11/1/27 | 50,000 | 47,986 | notes 6.00%, 3/1/26 | 140,000 | 130,476 |
| | , | 15,725,194 | CommScope Technologies, LLC 144A | 110,000 | 130,110 |
| Publishing (0.9%) | | _0,0,_0 . | company guaranty sr. unsec. notes | | |
| McGraw-Hill Education, Inc. 144A sr. | | | 6.00%,6/15/25 | 116,000 | 108,120 |
| notes 5.75%, 8/1/28 | 435,000 | 376,923 | CommScope, Inc. 144A company | | |
| McGraw-Hill Education, Inc. 144A sr. | | | guaranty sr. unsec. notes | | |
| unsec. notes 8.00%, 8/1/29 | 445,000 | 379,812 | 8.25%, 3/1/27 | 365,000 | 291,994 |
| News Corp. 144A company | | | CrowdStrike Holdings, Inc. | | |
| guaranty sr. unsec. unsub. bonds | | | company guaranty sr. unsec. notes | | |
| 5.125%, 2/15/32 | 40,000 | 36,495 | 3.00%, 2/15/29 | 505,000 | 435,480 |
| News Corp. 144A sr. unsec. notes | | | Gen Digital Inc. 144A company | | |
| 3.875%, 5/15/29 | 460,000 | 403,791 | guaranty sr. unsec. unsub. notes | | |
| D-4-11/1 20/\ | | 1,197,021 | 7.125%, 9/30/30 | 190,000 | 190,318 |
| Retail (1.3%) | | | Imola Merger Corp. 144A sr. notes | | |
| Asbury Automotive Group, Inc. 144A company guaranty sr. unsec. bonds | | | 4.75%,5/15/29 | 810,000 | 704,461 |
| 5.00%, 2/15/32 | 35,000 | 30,474 | NCR Corp. 144A company guaranty sr. | | |
| Asbury Automotive Group, Inc. 144A | 33,000 | 30,414 | unsec. sub. notes 5.125%, 4/15/29 | 465,000 | 411,646 |
| company guaranty sr. unsec. notes | | | NortonLifeLock, Inc. 144A company | | |
| 4.625%, 11/15/29 | 65,000 | 57,696 | guaranty sr. unsec. unsub. notes | 150,000 | 140.250 |
| Bath & Body Works, Inc. company | , | | 6.75%, 9/30/27 | 150,000 | 149,250 |
| guaranty sr. unsec. bonds 6.75%, | | | Rocket Software, Inc. 144A sr. unsec. | 635,000 | E24 104 |
| perpetual maturity | 210,000 | 188,941 | notes 6.50%, 2/15/29 | 635,000 | 534,194 |
| Bath & Body Works, Inc. company | | | TTM Technologies, Inc. 144A company guaranty sr. unsec. notes | | |
| guaranty sr. unsec. notes 7.50%, | | | 4.00%, 3/1/29 | 375,000 | 318,750 |
| perpetual maturity | 275,000 | 278,663 | Twilio, Inc. company guaranty sr. | 313,000 | 310,130 |
| Bath & Body Works, Inc. 144A | | | unsec. notes 3.875%, 3/15/31 | 475,000 | 395,492 |
| company guaranty sr. unsec. notes | | | Twilio, Inc. company guaranty sr. | 113,000 | 333,132 |
| 9.375%, 7/1/25 | 41,000 | 43,522 | unsec. notes 3.625%, 3/15/29 | 335,000 | 285,002 |
| Bath & Body Works, Inc. 144A | | | ZoomInfo Technologies, LLC/ | 333,000 | 203,002 |
| company guaranty sr. unsec. unsub. | | | ZoomInfo Finance Corp. 144A | | |
| bonds 6.625%, 10/1/30 | 275,000 | 265,482 | company guaranty sr. unsec. notes | | |
| Macy's Retail Holdings, LLC 144A | | | 3.875%, 2/1/29 | 1,055,000 | 907,370 |
| company guaranty sr. unsec. unsub. | | | | | 7,798,123 |
| bonds 6.125%, 3/15/32 | 150,000 | 131,231 | Textiles (0.7%) | | • • |
| Macy's Retail Holdings, LLC 144A | | | Hanesbrands, Inc. 144A company | | |
| company guaranty sr. unsec. unsub. | 155,000 | 120 122 | guaranty sr. unsec. unsub. notes | | |
| notes 5.875%, 3/15/30 | 155,000 | 138,122 | 9.00%, perpetual maturity | 150,000 | 151,125 |
| Michaels Cos., Inc. (The) 144A sr. unsec. notes 7.875%, 5/1/29 | 150,000 | 101,069 | Kontoor Brands, Inc. 144A | | |
| unsec. notes 1.01370, 3/1/23 | 130,000 | 101,009 | company guaranty sr. unsec. notes | 415.000 | 0.40 =0= |
| | | | 4.125%, 11/15/29 | 415,000 | 346,525 |

| CORPORATE BONDS AND NOTES (81.5%)*cont. | Principal amount | Value |
|--|---------------------|---------------|
| Textiles cont. | | |
| Levi Strauss & Co. 144A sr. unsec. sub. | | |
| bonds 3.50%, 3/1/31 | \$590,000 | \$488,225 |
| T (0.00() | | 985,875 |
| Toys (0.3%) | | |
| Mattel, Inc. 144A company guaranty sr. unsec. notes 5.875%, 12/15/27 | 120,000 | 117,857 |
| Mattel, Inc. 144A company guaranty | 120,000 | 111,031 |
| sr. unsec. notes 3.75%, 4/1/29 | 245,000 | 215,559 |
| Mattel, Inc. 144A company guaranty | | |
| sr. unsec. notes 3.375%, 4/1/26 | 65,000 | 59,813 |
| | | 393,229 |
| Transportation (1.4%) | | |
| American Airlines, Inc./AAdvantage | | |
| Loyalty IP, Ltd. 144A company guaranty sr. notes 5.75%, 4/20/29 | 325 000 | 215 569 |
| American Airlines, Inc./AAdvantage | 325,000 | 315,568 |
| Loyalty IP, Ltd. 144A company | | |
| guaranty sr. notes 5.50%, 4/20/26 | 325,000 | 321,974 |
| Delta Air Lines, Inc./SkyMiles IP, Ltd. | , | , |
| 144A company guaranty sr. notes | | |
| 4.75%, 10/20/28 | 415,000 | 402,836 |
| United Airlines, Inc. 144A company | | |
| guaranty sr. notes 4.625%, 4/15/29 | 130,000 | 118,452 |
| United Airlines, Inc. 144A company | | |
| guaranty sr. notes 4.375%, 4/15/26 | 130,000 | 123,514 |
| Watco Cos., LLC/Watco Finance Corp. | 700.000 | 004045 |
| 144A sr. unsec. notes 6.50%, 6/15/27 | 720,000 | 684,215 |
| Utilities and power (1.5%) | | 1,966,559 |
| Buckeye Partners LP sr. unsec. bonds | | |
| 5.85%, 11/15/43 | 195,000 | 144,300 |
| Buckeye Partners LP sr. unsec. notes | | |
| 3.95%, 12/1/26 | 155,000 | 139,928 |
| Electricite De France SA 144A jr. unsec. | | |
| sub. FRB 9.125%, 6/15/53 (France) | 200,000 | 205,500 |
| Energy Transfer LP jr. unsec. sub. FRN | | |
| 6.625%, perpetual maturity | 760,000 | 581,453 |
| NRG Energy, Inc. 144A company | | |
| guaranty sr. unsec. bonds 3.875%, 2/15/32 | 265,000 | 204 170 |
| NRG Energy, Inc. 144A jr. unsec. sub. | 265,000 | 204,179 |
| FRB 10.25%, perpetual maturity | 115,000 | 108,442 |
| Pacific Gas and Electric Co. company | 113,000 | 100,112 |
| guaranty sr. unsec. unsub. notes | | |
| 2.95%, 3/1/26 | 160,000 | 146,562 |
| PG&E Corp. sr. sub. notes | | |
| 5.25%, 7/1/30 | 95,000 | 85,148 |
| Vistra Corp. 144A jr. unsec. sub. FRN | | |
| 8.00%, 10/15/51 | 150,000 | 140,248 |
| Vistra Corp. 144A jr. unsec. sub. FRN 7.00%, perpetual maturity | 140,000 | 122,150 |
| Vistra Operations Co., LLC 144A | | |
| company guaranty sr. notes | | |
| 4.30%, 7/15/29 | 135,000 | 119,634 |
| Vistra Operations Co., LLC 144A | | |
| company guaranty sr. unsec. notes | 105 000 | 150 770 |
| 5.50%, 9/1/26 | 165,000 | 158,770 |
| Tatal asympusts hands and astronomy for the control of the control | 026) | 2,156,314 |
| Total corporate bonds and notes (cost \$125,428 | ,926) | \$114,718,337 |

| SENIOR LOANS (7.9%)*c | amount | Value |
|--|--|--|
| Basic materials (0.8%) | | |
| BWAY Holding Co. bank term loan FRN | | |
| Ser. B, (CME Term SOFR 1 Month + 4.00%), | | |
| 9.16%, 8/15/26 | \$30,000 | \$29,879 |
| CP Atlas Buyer, Inc. bank term loan FRN | | |
| Ser. B1, (ICE LIBOR USD 3 Month + 3.75%), | | |
| 8.953%, 11/23/27 | 318,236 | 298,824 |
| Klockner-Pentaplast of America, Inc. bank term | | |
| loan FRN (CME Term SOFR 6 Month + 4.73%), | | |
| 10.104%, 2/4/26 | 220,592 | 209,010 |
| LSF11 A5 HoldCo, LLC bank term loan FRN | | |
| Ser. B, (CME Term SOFR 1 Month + 4.25%), | 140.000 | 120.050 |
| 9.453%, 10/15/28 | 140,000 | 138,659 |
| Nouryon USA, LLC bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 4.00%), | | |
| 9.347%, 4/3/28 | 135,000 | 133,593 |
| Nouryon USA, LLC bank term loan FRN | 133,000 | 133,333 |
| Ser. B, (CME Term SOFR 1 Month + 4.00%), | | |
| 9.318%, 4/3/28 | 288,090 | 284,939 |
| 5.51676, 17.6725 | 200,000 | 1,094,904 |
| Capital goods (0.6%) | | _,00 .,00 . |
| Adient US, LLC bank term loan FRN Ser. B, (CME | | |
| Term SOFR 1 Month + 3.25%), 8.467%, 4/1/28 | 161,520 | 161,386 |
| Filtration Group Corp. bank term loan FRN (CME | | |
| Term SOFR 1 Month + 4.25%), 9.326%, 10/19/28 | 64,838 | 64,756 |
| Filtration Group Corp. bank term loan FRN (CME | | |
| Term SOFR 3 Month + 3.50%), 8.717%, 10/19/28 | 54,038 | 53,787 |
| Madison IAQ, LLC bank term loan FRN (CME Term | | |
| SOFR 1 Month + 3.25%), 8.334%, 6/15/28 | 214,453 | 209,789 |
| MajorDrive Holdings IV, LLC bank term loan FRN | | 005 740 |
| (ICE LIBOR USD 3 Month + 4.00%), 9.50%, 6/1/28 | 406,282 | 395,719 |
| | , - | |
| Communication services (0.4%) | , | 885,437 |
| Communication services (0.4%) Assurion, LLC bank term loan FRN Ser. B9. (ICF | , | |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE | | 885,437 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 | 142,093 | |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE | | 885,437 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan | | 885,437 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 | 142,093 | 885,437 134,199 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) | 142,093 | 885,437 134,199 446,171 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term | 142,093 | 885,437 134,199 446,171 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month | 142,093 456,894 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 | 142,093 | 885,437 134,199 446,171 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN | 142,093 456,894 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), | 142,093 456,894 317,116 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 | 142,093 456,894 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank | 142,093 456,894 317,116 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainmel Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month | 142,093 456,894 317,116 185,000 | 885,437 134,199 446,171 580,370 246,919 101,056 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainmel Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 | 142,093 456,894 317,116 | 885,437 134,199 446,171 580,370 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainmeldings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term | 142,093 456,894 317,116 185,000 | 885,437 134,199 446,171 580,370 246,919 101,056 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 | 142,093 456,894 317,116 185,000 305,095 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainmeldings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term | 142,093 456,894 317,116 185,000 305,095 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term | 142,093 456,894 317,116 185,000 305,095 215,961 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 | 142,093 456,894 317,116 185,000 305,095 215,961 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 | 142,093 456,894 317,116 185,000 305,095 215,961 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term loan FRN (CME Term SOFR 3 Month + 3.23%), | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 292,003 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 290,105 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term loan FRN (CME Term SOFR 3 Month + 3.23%), 8.447%, 5/1/26 | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term loan FRN (CME Term SOFR 3 Month + 3.23%), 8.447%, 5/1/26 Mattress Firm, Inc. bank term loan FRN Ser. B, | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 292,003 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 290,105 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term loan FRN Ser. B, (ICME Term SOFR 3 Month + 3.23%), 8.447%, 5/1/26 Mattress Firm, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 4.25%), 9.95%, 9/21/28 | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 292,003 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 290,105 |
| Asurion, LLC bank term loan FRN Ser. B9, (ICE LIBOR USD 1 Month + 3.25%), 8.788%, 7/31/27 DIRECTV Financing, LLC bank term loan FRN (CME Term SOFR 3 Month + 5.00%), 10.217%, 7/22/27 Consumer cyclicals (2.2%) AMC Entertainment Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 1 Month + 3.00%), 8.218%, 4/22/26 Audacy Capital Corp. bank term loan FRN Ser. B1, (ICE LIBOR USD 3 Month + 2.50%), 7.717%, 11/17/24 Clear Channel Outdoor Holdings, Inc. bank term loan FRN Ser. B, (ICE LIBOR USD 3 Month + 3.50%), 8.807%, 8/21/26 CMG Media Corp. bank term loan FRN (CME Term SOFR 3 Month + 3.50%), 8.842%, 12/17/26 Crocs, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.50%), 8.703%, 2/20/29 Garda World Security Corp. bank term loan FRN Ser. B, (CME Term SOFR 3 Month + 4.25%), 9.427%, 10/30/26 iHeart Communications, Inc. bank term loan FRN (CME Term SOFR 3 Month + 3.23%), 8.447%, 5/1/26 Mattress Firm, Inc. bank term loan FRN Ser. B, | 142,093 456,894 317,116 185,000 305,095 215,961 196,571 292,003 | 885,437 134,199 446,171 580,370 246,919 101,056 290,819 193,015 196,862 290,105 |

Principal

| SENIOR LOANS (7.9%)*c cont. | Principal amount | Value |
|---|---------------------|-----------|
| Consumer cyclicals cont. | | |
| Neptune Bidco US, Inc. bank term loan FRN | | |
| Class C, (CME Term SOFR 1 Month + 5.00%), | 4 | 4 |
| 10.004%, 4/11/29 | \$185,000 | \$162,430 |
| PetSmart, LLC bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 3.75%), 8.953%, 1/29/28 | 487,361 | 485,738 |
| Robertshaw US Holding Corp. bank term | ,,,,,, | |
| loan FRN (CME Term SOFR 1 Month + 8.00%), | | |
| 13.342%, 2/28/27 | 200,000 | 44,000 |
| Sabre GLBL, Inc. bank term loan FRN (CME Term SOFR 1 Month + 5.00%), 10.203%, 6/30/28 | 82,898 | 65,655 |
| White Cap Buyer, LLC bank term loan FRN (CME | 02,030 | |
| Term SOFR 1 Month + 3.75%), 8.853%, 10/19/27 | 326,861 | 323,500 |
| Concumeratories (1.10/) | | 2,977,388 |
| Consumer staples (1.1%) Ascend Learning, LLC bank term loan FRN (ICE | | |
| LIBOR USD 1 Month + 5.75%), 10.953%, 11/18/29 | 230,000 | 194,541 |
| Brand Industrial Services, Inc. bank term | | |
| loan FRN (CME Term SOFR 1 Month + 4.25%), | | |
| 9.417%, 6/21/24 | 569,593 | 561,641 |
| IRB Holding Corp. bank term loan FRN (CME Term SOFR 3 Month Plus CSA + 3.00%), | | |
| 8.203%, 12/15/27 | 204,760 | 203,161 |
| PECF USS Intermediate Holding III Corp. bank | | |
| term loan FRN Ser. B, (ICE LIBOR USD 1 Month | 217.000 | 252.007 |
| +4.25%), 9.523%, 12/17/28 VM Consolidated, Inc. bank term loan FRN (CME | 317,898 | 259,087 |
| Term SOFR 1 Month + 3.25%), 8.467%, 3/19/28 | 316,986 | 316,986 |
| | , | 1,535,416 |
| Energy (0.3%) | | |
| CQP Holdco LP bank term loan FRN (ICE LIBOR USD 3 Month + 3.75%), 9.288%, 5/27/28 | 406,700 | 405,683 |
| 03D 3 MOHEH + 3.1370J, 3.20070, 3/21/20 | 400,700 | 405,683 |
| Financials (0.2%) | | , |
| Aretec Group, Inc. bank term Ioan FRN (CME | 145.000 | 144 540 |
| Term SOFR 1 Month + 4.50%), 9.276%, 3/8/30 HUB International, Ltd. bank term loan FRN | 145,000 | 144,548 |
| Ser. B, (CME Term SOFR 1 Month + 4.25%), | | |
| 9.341%, 6/8/30 | 201,289 | 201,653 |
| Health save (0.10/) | | 346,201 |
| Health care (0.1%) One Call Corp. bank term loan FRN (ICE LIBOR | | |
| USD 3 Month + 5.50%), 10.829%, 4/22/27 | 194,556 | 138,135 |
| | | 138,135 |
| Technology (1.9%) | | |
| Cloud Software Group, Inc. bank term loan FRN Ser. B, (CME Term SOFR 1 Month + 4.50%), | | |
| 9.842%, 3/30/29 | 374,063 | 349,281 |
| Epicor Software Corp. bank term loan FRN (ICE | | |
| LIBOR USD 1 Month + 7.75%), 12.834%, 7/31/28 | 170,000 | 169,611 |
| Genesys Cloud Services Holdings, LLC bank term loan FRN (CME Term SOFR 3 Month | | |
| +4.00%), 9.269%, 12/1/27 | 347,013 | 345,774 |
| Polaris Newco, LLC bank term loan FRN Ser. B, | , | |
| (ICE LIBOR USD 3 Month + 4.00%), 9.538%, 6/3/28 | 369,390 | 339,222 |
| Proofpoint, Inc. bank term loan FRN Ser. B, (ICE | 610.000 | F00 17F |
| LIBOR USD 3 Month + 6.25%), 11.467%, 8/31/29 Rocket Software, Inc. bank term loan FRN (ICE | 610,000 | 590,175 |
| LIBOR USD 3 Month + 4.25%), 9.443%, 11/28/25 | 171,500 | 169,785 |
| UKG, Inc. bank term loan FRN (ICE LIBOR USD | · | |
| 1 Month + 5.25%), 10.271%, 5/3/27 | 215,000 | 207,935 |
| | | |

| SENIOR LOANS (7.9%)*c cont. | amount | Value |
|--|--------------------|---------------------------------|
| Technology cont. | | |
| UKG, Inc. bank term loan FRN (CME Term SOFR | | |
| 3 Month + 3.25%), 8.271%, 5/3/26 | \$340,443 | \$333,739 |
| Vision Solutions, Inc. bank term loan FRN (ICE | | |
| LIBOR USD 1 Month + 4.25%), 9.505%, 4/24/28 | 228,258 | 215,941 |
| Transportation (0.30/) | | 2,721,463 |
| Transportation (0.3%) American Airlines, Inc. bank term loan FRN (CME | | |
| Term SOFR3 Month + 4.75%), 10.019%, 4/20/28 | 150,000 | 153,000 |
| United Airlines, Inc. bank term loan FRN | | |
| Ser. B, (ICE LIBOR USD 3 Month + 3.75%), | | |
| 9.292%, 4/21/28 | 260,633 | 260,128 |
| Tatalaguia (1200 700) | | 413,128 |
| Total senior loans (cost \$11,588,790) | | \$11,098,125 |
| CONVERTING FROM PORT AND MOTTER (\$ 000/)* | Principal | W.1 |
| CONVERTIBLE BONDS AND NOTES (1.8%)* | amount | Value |
| Fiverr International, Ltd. cv. sr. unsec. notes | \$00F.000 | ć100 400 |
| zero %, 11/1/25 (Israel) Liberty TripAdvisor Holdings, Inc. 144A cv. sr. | \$225,000 | \$189,428 |
| unsec. bonds 0.50%, 6/30/51 | 210,000 | 163,695 |
| Middleby Corp. (The) cv. sr. unsec. notes | ., | |
| 1.00%, 9/1/25 | 125,000 | 155,188 |
| Nabors Industries, Inc. 144A company guaranty | | |
| cv. sr. unsec. unsub. notes 1.75%, 6/15/29 | 155,000 | 116,018 |
| ON Semiconductor Corp. cv. sr. unsec. notes zero %, 5/1/27 | 101,000 | 185,487 |
| Realogy Group, LLC/Realogy Co-Issuer | 101,000 | 105,701 |
| Corp. company guaranty cv. sr. unsec. notes | | |
| 0.25%, 6/15/26 | 274,000 | 204,541 |
| Shake Shack, Inc. cv. sr. unsec. notes | 200.000 | 226.056 |
| zero %, 3/1/28 Splunk, Inc. cv. sr. unsec. notes 1.125%, 6/15/27 | 280,000 301,000 | 226,856 |
| Spotify USA, Inc. company guaranty cv. sr. | 301,000 | 259,613 |
| unsec. notes zero %, 3/15/26 | 270,000 | 229,365 |
| Teladoc Health, Inc. cv. sr. unsec. sub. notes | | |
| 1.25%, 6/1/27 | 270,000 | 214,650 |
| Unity Software, Inc. cv. sr. unsec. notes | 200.000 | 222 500 |
| zero %, 11/15/26 Upwork, Inc. cv. sr. unsec. notes 0.25%, 8/15/26 | 280,000 280,000 | 223,580 |
| Welltower OP, LLC 144A company guaranty cv. sr. | 200,000 | 220,100 |
| unsec. notes 2.75%, 5/15/28, R | 204,000 | 205,530 |
| Total convertible bonds and notes (cost \$2,824,8 | 306) | \$2,600,719 |
| CONVERTIBLE PREFERRED STOCKS (0.6%)* | Shares | Value |
| | | |
| Chart Industries, Inc. \$3.375 cv. pfd. KKR & Co., Inc. \$3.00 cv. pfd. | 5,389 2,559 | \$349,692 168,971 |
| PG&E Corp. \$5.50 cv. pfd. | 2,160 | 323,503 |
| Total convertible preferred stocks (cost \$667,03. | | \$842,166 |
| | | |
| COMMON STOCKS (0.4%)* | Shares | Value |
| EQT Corp. | 6,835 | \$281,124 |
| OneMain Holdings, Inc. Texas Competitive Electric Holdings Co., LLC/ | 4,865 | 212,552 |
| TCEH Finance, Inc. (Rights) † | 36,615 | 42,107 |
| Total common stocks (cost \$491,882) | | \$535,783 |
| | Shares | Value |
| SHORT-TERM INVESTMENTS (6.3%)* | Shares | Value |
| Putnam Short Term Investment Fund Class P 5.23% L | 8 834 931 | \$8,834,821 |
| Total short-term investments (cost \$8,834,821) | 8,834,821 | \$8,834,821 |
| (2000,0007,021) | | , -, -, · · · · · · · · · · · · |
| Total investments (cost \$149,836,256) | | \$138,629,951 |
| | | |

Principal

Key to holding's currency abbreviations

EUR Euro

FRN

Key to holding's abbreviations

CME Chicago Mercantile Exchange DAC Designated Activity Company

FRB Floating Rate Bonds: The rate shown is the current interest rate at the close of the reporting period. Rates may be subject to a cap or floor. For certain securities, the rate may represent a fixed rate

currently in place at the close of the reporting period. Floating Rate Notes: The rate shown is the current interest rate or

yield at the close of the reporting period. Rates may be subject to a cap or floor. For certain securities, the rate may represent a fixed rate currently in place at the close of the reporting period.

ICE Intercontinental Exchange LIBOR London Interbank Offered Rate

REGS Securities sold under Regulation S may not be offered, sold or delivered within the United States except pursuant to an exemption from, or in a transaction not subject to, the registration

requirements of the Securities Act of 1933.

SOFR Secured Overnight Financing Rate

Notes to the fund's portfolio

Unless noted otherwise, the notes to the fund's portfolio are for the close of the fund's reporting period, which ran from January 1, 2023 through June 30, 2023 (the reporting period). Within the following notes to the portfolio, references to "Putnam Management" represent Putnam Investment Management, LLC, the fund's manager, an indirect whollyowned subsidiary of Putnam Investments, LLC and references to "ASC 820" represent Accounting Standards Codification 820 Fair Value Measurements and Disclosures.

- * Percentages indicated are based on net assets of \$140,748,350.
- † This security is non-income-producing.
- ‡‡ Income may be received in cash or additional securities at the discretion of the issuer. The rate shown in parenthesis is the rate paid in kind, if applicable.
- c Senior loans are exempt from registration under the Securities Act of 1933, as amended, but contain certain restrictions on resale and cannot be sold publicly. These loans pay interest at rates which adjust periodically. The interest rates shown for senior loans are the current interest rates at the close of the reporting period. Senior loans are also subject to mandatory and/or optional prepayment which cannot be predicted. As a result, the remaining maturity may be substantially less than the stated maturity shown (Notes 1 and 7).
- L Affiliated company (Note 5). The rate quoted in the security description is the annualized 7-day yield of the fund at the close of the reporting period.
- R Real Estate Investment Trust.

Debt obligations are considered secured unless otherwise indicated.

144A after the name of an issuer represents securities exempt from registration under Rule 144A of the Securities Act of 1933, as amended. These securities may be resold in transactions exempt from registration, normally to qualified institutional buyers.

The dates shown on debt obligations are the original maturity dates.

| FORWARD CURRENCY CONTRACTS at 6/30/23 (aggregate face value \$1,475,326) (Unaudited) | | | | | | |
|--|----------|----------|----------|-----------|------------|----------------|
| | | Contract | Delivery | | Aggregate | appreciation/ |
| Counterparty | Currency | type* | date | Value | face value | (depreciation) |
| Bank of America N.A. | | | | | | |
| | Euro | Sell | 9/20/23 | \$106,580 | \$105,485 | \$(1,095) |
| JPMorgan Chase Bank N.A. | | | | | | |
| | Euro | Sell | 9/20/23 | 141,741 | 140,302 | (1,439) |
| Morgan Stanley & Co. Internation | al PLC | | | | | |
| | Euro | Sell | 9/20/23 | 163,320 | 161,647 | (1,673) |
| State Street Bank and Trust Co. | | | | | | |
| | Euro | Sell | 9/20/23 | 1,027,898 | 1,017,364 | (10,534) |
| UBSAG | | | | | | |
| | Euro | Sell | 9/20/23 | 51,044 | 50,528 | (516) |
| Unrealized appreciation | | | | | | _ |
| Unrealized (depreciation) | | | | | | (15,257) |
| Total | | | | | | \$(15,257) |

^{*} The exchange currency for all contracts listed is the United States Dollar.

CENTRALLY CLEARED CREDIT DEFAULT CONTRACTS OUTSTANDING - PROTECTION SOLD at 6/30/23 (Unaudited)

| Referenced debt* | Rating*** | Upfront premium received (paid)** | Notional amount | Value | Termi- nation date | Payments received by fund | Unrealized appreciation/ (depreciation) |
|---------------------------|-----------|--|--------------------|----------|--------------------------|---------------------------------|---|
| CDX NA HY Series 40 Index | B+/P | \$(83,507) | \$3,500,000 | \$97,615 | 6/20/28 | 500 bp — | \$19,455 |
| | | | | | | Quarterly | |
| Total | | \$(83,507) | | | | | \$19,455 |

^{*} Payments related to the referenced debt are made upon a credit default event.

 $[\]star\star$ Upfront premium is based on the difference between the original spread on issue and the market spread on day of execution.

^{***}Ratings for an underlying index represent the average of the ratings of all the securities included in that index. The Moody's, Standard & Poor's or Fitch ratings are believed to be the most recent ratings available at June 30, 2023. Securities rated by Fitch are indicated by "/F." Securities rated by Putnam are indicated by "/F." The Putnam rating categories are comparable to the Standard & Poor's classifications.

ASC 820 establishes a three-level hierarchy for disclosure of fair value measurements. The valuation hierarchy is based upon the transparency of inputs to the valuation of the fund's investments. The three levels are defined as follows:

Level 1: Valuations based on quoted prices for identical securities in active markets.

 $Level\ 2: Valuations\ based\ on\ quoted\ prices\ in\ markets\ that\ are\ not\ active\ or\ for\ which\ all\ significant\ inputs\ are\ observable,\ either\ directly\ or\ indirectly.$

Level 3: Valuations based on inputs that are unobservable and significant to the fair value measurement.

The following is a summary of the inputs used to value the fund's net assets as of the close of the reporting period:

| | | Valuation inputs | | | | | | |
|------------------------------|-----------|------------------|---------|--|--|--|--|--|
| Investments in securities: | Level 1 | Level 2 | Level 3 | | | | | |
| Common stocks*: | | | | | | | | |
| Energy | \$281,124 | \$- | \$- | | | | | |
| Financials | \$212,552 | _ | _ | | | | | |
| Utilities and power | \$— | 42,107 | _ | | | | | |
| Total common stocks | 493,676 | 42,107 | _ | | | | | |
| Convertible bonds and notes | _ | 2,600,719 | _ | | | | | |
| Convertible preferred stocks | _ | 842,166 | _ | | | | | |
| Corporate bonds and notes | _ | 114,718,337 | _ | | | | | |
| Seniorloans | _ | 11,098,125 | _ | | | | | |
| Short-term investments | _ | 8,834,821 | _ | | | | | |
| Totals by level | \$493,676 | \$138,136,275 | \$- | | | | | |

| | Valuation inputs | | | | |
|------------------------------|------------------|------------|---------|--|--|
| Other financial instruments: | Level 1 | Level 2 | Level 3 | | |
| Forward currency contracts | \$- | \$(15,257) | \$— | | |
| Credit default contracts | _ | 102,962 | _ | | |
| Totals by level | \$- | \$87,705 | \$- | | |

 $^{^{\}star}$ Common stock classifications are presented at the sector level, which may differ from the fund's portfolio presentation.

Statement of assets and liabilities

6/30/23 (Unaudited)

| Investment in securities, at value (Notes 1 and 9): | |
|---|---------------|
| Unaffiliated issuers (identified cost \$141,001,435) | \$129,795,130 |
| Affiliated issuers (identified cost \$8,834,821) (Note 5) | 8,834,821 |
| Cash | 247,401 |
| Foreign currency (cost \$16) (Note 1) | 16 |
| Dividends, interest and other receivables | 2,113,095 |
| Receivable from broker (Note 1) | 2,912 |
| Receivable for shares of the fund sold | 75,223 |
| Receivable for investments sold | 231,961 |
| Receivable for variation margin on centrally cleared swap contracts (Note 1) | 24,369 |
| Deposits with broker (Note 1) | 322,948 |
| Total assets | 141,647,876 |
| Liabilities | |
| Payable for investments purchased | 585,892 |
| Payable for shares of the fund repurchased | 28,682 |
| Payable for compensation of Manager (Note 2) | 64,471 |
| Payable for custodian fees (Note 2) | 8,036 |
| Payable for investor servicing fees (Note 2) | 16,102 |
| Payable for Trustee compensation and expenses (Note 2) | 108,541 |
| Payable for administrative services (Note 2) | 531 |
| Payable for distribution fees (Note 2) | 9,091 |
| Unrealized depreciation on forward currency contracts (Note 1) | 15,257 |
| Other accrued expenses | 62,923 |
| Total liabilities | 899,526 |
| Net assets | \$140,748,350 |
| Represented by | |
| Paid-in capital (Unlimited shares authorized) (Notes 1 and 4) | \$168,895,841 |
| Total distributable earnings (Note 1) | (28,147,491) |
| Total — Representing net assets applicable to capital shares outstanding | \$140,748,350 |
| Computation of net asset value Class IA | |
| Net assets | \$96,272,087 |
| Number of shares outstanding | 18,322,979 |
| Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding) | \$5.25 |
| Computation of net asset value Class IB | |
| Net assets | \$44,476,263 |
| Number of shares outstanding | 8,551,935 |
| Net asset value, offering price and redemption price per share (net assets divided by number of shares outstanding) | \$5.20 |
| | |

Statement of operations

Six months ended 6/30/23 (Unaudited)

| Investment | income |
|------------|--------|
| | |

| Interest (including interest income of \$184,751 from investments in affiliated issuers) (Note 5) | \$4,635,773 |
|---|-------------|
| Dividends (net of foreign tax of \$5) | 31,126 |
| Total investment income | 4,666,899 |
| Expenses | |
| Compensation of Manager (Note 2) | 384,184 |
| Investor servicing fees (Note 2) | 48,338 |
| Custodian fees (Note 2) | 7,105 |
| Trustee compensation and expenses (Note 2) | 2,949 |
| Distribution fees (Note 2) | 51,841 |
| Administrative services (Note 2) | 1,638 |
| Auditing and tax fees | 40,502 |
| Other | 24,703 |
| Total expenses | 561,260 |
| Expense reduction (Note 2) | (587) |
| Net expenses | 560,673 |
| Net investment income | 4,106,226 |
| Realized and unrealized gain (loss) | |
| Net realized gain (loss) on: | |
| Securities from unaffiliated issuers (Notes 1 and 3) | (2,795,417) |
| Foreign currency transactions (Note 1) | 3,417 |
| Forward currency contracts (Note 1) | (855) |
| Swap contracts (Note 1) | 78,016 |
| Total net realized loss | (2,714,839) |
| Change in net unrealized appreciation (depreciation) on: | |
| Securities from unaffiliated issuers | 5,438,903 |
| Assets and liabilities in foreign currencies | (739) |
| Forward currency contracts | (1,672) |
| Swap contracts | (3,087) |
| Total change in net unrealized appreciation | 5,433,405 |
| Net gain on investments | 2,718,566 |
| Net increase in net assets resulting from operations | \$6,824,792 |

Statement of changes in net assets

| | Six months ended 6/30/23* | Year ended 12/31/22 |
|---|---------------------------------|------------------------|
| Increase (decrease) in net assets | | |
| Operations: | | |
| Net investment income | \$4,106,226 | \$7,467,073 |
| Net realized loss on investments | (2,714,839) | (4,622,229) |
| Change in net unrealized appreciation (depreciation) of investments | 5,433,405 | (21,584,910) |
| Net increase (decrease) in net assets resulting from operations | 6,824,792 | (18,740,066) |
| Distributions to shareholders (Note 1): | | |
| From ordinary income | | |
| Net investment income | | |
| Class IA | (5,311,398) | (5,650,434) |
| Class IB | (2,098,210) | (2,083,476) |
| Net realized short-term gain on investments | | |
| Class IA | _ | (147,243) |
| Class IB | _ | (57,475) |
| From net realized long-term gain on investments | | |
| Class IA | _ | (55,216) |
| Class IB | _ | (21,553) |
| Increase (decrease) from capital share transactions (Note 4) | 9,451,518 | (9,646,235) |
| Total increase (decrease) in net assets | 8,866,702 | (36,401,698) |
| Net assets: | | |
| Beginning of period | 131,881,648 | 168,283,346 |
| End of period | \$140,748,350 | \$131,881,648 |

^{*} Unaudited.

Financial highlights

(For a common share outstanding throughout the period)

| INVESTMENT OPERATI | ONS: | | | | LESS DIS | TRIBUTI | ONS: | | | RATIOSAND | SUPPLE | MENTAL DA | ιTA: |
|--------------------|--------------------------------------|--------------------------------|--|----------------------------------|----------------------------|---------------------------------------|---------------------|--------------------------------|---|---|--|--|------------------------|
| Period ended | Net asset value, beginning of period | Net investment income (loss) a | Netrealized and unrealized gain (loss) on investments | Total from investment operations | From net investment income | From net realized gain on investments | Total distributions | Net asset value, end of period | Total return at net asset value (%) b.c | Net assets, end of period (in thousands) | Ratio of expenses to average net assets (%) b.4 | Ratio of net investmentincome (loss) to average net assets (%) | Portfolio turnover (%) |
| Class IA | | | | | | | | | | · | | | |
| 6/30/23† | \$5.29 | .16 | .10 | .26 | (.30) | _ | (.30) | \$5.25 | 5.09* | \$96,272 | .37* | 3.01* | 19* |
| 12/31/22 | 6.30 | .29 | (.98) | (.69) | (.31) | (.01) | (.32) | 5.29 | (11.37) | 94,436 | .75 f | 5.24 | 28 |
| 12/31/21 | 6.30 | .28 | .03 | .31 | (.31) | _ | (.31) | 6.30 | 5.20 | 119,199 | .70 | 4.56 | 44 |
| 12/31/20 | 6.39 | .30 | (.03) e | .27 | (.36) | _ | (.36) | 6.30 | 5.50 | 125,959 | .72 | 4.98 | 48 |
| 12/31/19 | 5.94 | .33 | .51 | .84 | (.39) | _ | (.39) | 6.39 | 14.55 | 131,799 | .73 | 5.29 | 37 |
| 12/31/18 | 6.55 | .35 | (.57) | (.22) | (.39) | _ | (.39) | 5.94 | (3.59) | 129,535 | .72 | 5.58 | 31 |
| ClassIB | | | | | | | | | | | | | |
| 6/30/23† | \$5.23 | .15 | .11 | .26 | (.29) | _ | (.29) | \$5.20 | 5.06* | \$44,476 | .49* | 2.89* | 19* |
| 12/31/22 | 6.23 | .27 | (.97) | (.70) | (.29) | (.01) | (.30) | 5.23 | (11.60) | 37,446 | 1.00 f | 4.98 | 28 |
| 12/31/21 | 6.23 | .27 | .03 | .30 | (.30) | _ | (.30) | 6.23 | 4.97 | 49,084 | .95 | 4.32 | 44 |
| 12/31/20 | 6.32 | .28 | (.03) e | .25 | (.34) | _ | (.34) | 6.23 | 5.21 | 53,426 | .97 | 4.71 | 48 |
| 12/31/19 | 5.87 | .31 | .51 | .82 | (.37) | _ | (.37) | 6.32 | 14.40 | 54,261 | .98 | 5.04 | 37 |
| 12/31/18 | 6.49 | .33 | (.58) | (.25) | (.37) | _ | (.37) | 5.87 | (4.07) | 45,971 | .97 | 5.33 | 31 |

^{*} Not annualized.

[†] Unaudited.

a Per share net investment income (loss) has been determined on the basis of the weighted average number of shares outstanding during the period.

b The charges and expenses at the insurance company separate account level are not reflected.

c Total return assumes dividend reinvestment.

d Includes amounts paid through expense offset and/or brokerage/service arrangements, if any (Note 2). Also excludes acquired fund fees and expenses, if any.

[•] The Net realized and unrealized gain (loss) on investments shown for the period noted may not correspond with the amounts shown on the Statement of changes in net assets as a result of timing of share activity.

f Includes one-time proxy cost of 0.01%.

Notes to financial statements 6/30/23 (Unaudited)

Unless otherwise noted, the "reporting period" represents the period from January 1, 2023 through June 30, 2023. The following table defines commonly used references within the Notes to financial statements:

| References to | Represent |
|-------------------|---|
| Putnam Management | Putnam Investment Management, LLC, the fund's manager, an indirect wholly-owned subsidiary of Putnam Investments, LLC |
| State Street | State Street Bank and Trust Company |
| JPMorgan | JPMorgan Chase Bank, N.A. |
| the SEC | the Securities and Exchange Commission |
| OTC | over-the-counter |
| PIL | Putnam Investments Limited, an affiliate of Putnam Management |

Putnam VT High Yield Fund (the fund) is a diversified series of Putnam Variable Trust (the Trust), a Massachusetts business trust registered under the Investment Company Act of 1940, as amended, as an open-end management investment company. The goal of the fund is to seek high current income. Capital growth is a secondary goal when consistent with achieving high current income. The fund invests mainly in bonds that are obligations of U.S. companies, are below investment-grade in quality (sometimes referred to as "junk bonds"), and have intermediate- to long-term maturities (three years or longer). Under normal circumstances, Putnam Management invests at least 80% of the fund's net assets in securities rated below investment-grade. This policy may be changed only after 60 days' notice to shareholders. The fund may also invest in other debt instruments, including loans. Putnam Management may consider, among other factors, credit, interest rate and prepayment risks, as well as general market conditions, when deciding whether to buy or sell investments. Putnam Management may also use derivatives, such as futures, options, certain foreign currency transactions and credit default swap contracts for both hedging and non-hedging purposes.

The fund offers class IA and class IB shares of beneficial interest. Class IA shares are offered at net asset value and are not subject to a distribution fee. Class IB shares are offered at net asset value and pay an ongoing distribution fee, which is identified in Note 2.

In the normal course of business, the fund enters into contracts that may include agreements to indemnify another party under given circumstances. The fund's maximum exposure under these arrangements is unknown as this would involve future claims that may be, but have not yet been, made against the fund. However, the fund's management team expects the risk of material loss to be remote.

The fund has entered into contractual arrangements with an investment adviser, administrator, distributor, shareholder servicing agent and custodian, who each provide services to the fund. Unless expressly stated otherwise, shareholders are $\,$ not parties to, or intended beneficiaries of these contractual arrangements, and these contractual arrangements are not intended to create any shareholder right to enforce them against the service providers or to seek any remedy under them against the service providers, either directly or on behalf of the fund.

Under the fund's Amended and Restated Agreement and Declaration of Trust, any claims asserted against or on behalf of the Putnam Funds, including claims against Trustees and Officers, must be brought in state and federal courts located within the Commonwealth of Massachusetts.

Note 1 — Significant accounting policies

The following is a summary of significant accounting policies consistently followed by the fund in the preparation of its financial statements. The preparation of financial statements is in conformity with accounting principles generally accepted in the United States of America and requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities in the financial statements and the reported amounts of increases and decreases in net assets from operations. Actual results could differ from those estimates. Subsequent events after the Statement of assets and liabilities date through the date that the financial statements were issued have been evaluated in the preparation of the financial statements.

Investment income, realized and unrealized gains and losses and expenses of the fund are borne pro-rata based on the relative net assets of each class to the total net assets of the fund, except that each class bears expenses unique to that class (including the distribution fees applicable to such classes). Each class votes as a class only with respect to its own distribution plan or other matters on which a

class vote is required by law or determined by the Trustees. If the fund were liquidated, shares of each class would receive their pro-rata share of the net assets of the fund. In addition, the Trustees declare separate dividends on each class

Security valuation Portfolio securities and other investments are valued using policies and procedures adopted by the Board of Trustees. The Trustees have formed a Pricing Committee to oversee the implementation of these procedures and have delegated responsibility for valuing the fund's assets in accordance with these procedures to Putnam Management. Putnam Management has established an internal Valuation Committee that is responsible for making fair value determinations, evaluating the effectiveness of the pricing policies of the fund and reporting to the Pricing Committee.

Investments for which market quotations are readily available are valued at the last reported sales price on their principal exchange, or official closing price for certain markets, and are classified as Level 1 securities under Accounting Standards Codification 820 Fair Value Measurements and Disclosures (ASC 820). If no sales are reported, as in the case of some securities that are traded OTC, a security is valued at its last reported bid price and is generally categorized as a Level 2 security.

Investments in open-end investment companies (excluding exchange-traded funds), if any, which can be classified as Level 1 or Level 2 securities, are valued based on their net asset value. The net asset value of such investment companies equals the total value of their assets less their liabilities and divided by the number of their outstanding shares.

Market quotations are not considered to be readily available for certain debt obligations (including short-term investments with remaining maturities of 60 days or less) and other investments; such investments are valued on the basis of valuations furnished by an independent pricing service approved by the Trustees or dealers selected by Putnam Management. Such services or dealers determine valuations for normal institutional-size trading units of such securities using methods based on market transactions for comparable securities and various relationships, generally recognized by institutional traders, between securities (which consider such factors as security prices, yields, maturities and ratings). These securities will generally be categorized as Level 2.

Many securities markets and exchanges outside the U.S. close prior to the scheduled close of the New York Stock Exchange and therefore the closing prices for securities in such markets or on such exchanges may not fully reflect events that occur after such close but before the scheduled close of the New York Stock Exchange. Accordingly, on certain days, the fund will fair value certain foreign equity securities taking into account multiple factors including movements in the $\hbox{U.S. securities markets, currency valuations and comparisons to the valuation of}\\$ American Depository Receipts, exchange-traded funds and futures contracts. The foreign equity securities, which would generally be classified as Level 1 securities, will be transferred to Level 2 of the fair value hierarchy when they are valued at fair value. The number of days on which fair value prices will be used will depend on market activity and it is possible that fair value prices will be used by the fund to a significant extent. Securities quoted in foreign currencies, if any, are translated into U.S. dollars at the current exchange rate.

To the extent a pricing service or dealer is unable to value a security or provides a valuation that Putnam Management does not believe accurately reflects the security's fair value, the security will be valued at fair value by Putnam Management, who has been designated as valuation designee pursuant to Rule 2a-5 under the Investment Company Act of 1940, in accordance with policies and procedures approved by the Trustees. Certain investments, including certain restricted and illiquid securities and derivatives, are also valued at fair value following procedures approved by the Trustees. These valuations consider such factors as significant market or specific security events such as interest rate or credit quality changes, various relationships with other securities, discount rates, U.S. Treasury, U.S. swap and credit yields, index levels, convexity exposures, recovery rates, sales and other multiples and resale restrictions. These securities are classified as Level 2 or as Level 3 depending on the priority of the significant inputs.

To assess the continuing appropriateness of fair valuations, the Valuation Committee reviews and affirms the reasonableness of such valuations on a regular basis after considering all relevant information that is reasonably available. Such valuations and procedures are reviewed periodically by the Trustees. The fair value of securities is generally determined as the amount that the fund could reasonably expect to realize from an orderly disposition of such securities

over a reasonable period of time. By its nature, a fair value price is a good faith estimate of the value of a security in a current sale and does not reflect an actual market price, which may be different by a material amount.

Security transactions and related investment income Security transactions are recorded on the trade date (the date the order to buy or sell is executed). Gains or losses on securities sold are determined on the identified cost basis.

Interest income, net of any applicable withholding taxes, if any, is recorded on the accrual basis. Amortization and accretion of premiums and discounts on debt securities, if any, is recorded on the accrual basis.

Dividend income, net of any applicable withholding taxes, is recognized on the ex-dividend date except that certain dividends from foreign securities, if any, are recognized as soon as the fund is informed of the ex-dividend date. Non-cash dividends, if any, are recorded at the fair value of the securities received. Dividends representing a return of capital or capital gains, if any, are reflected as a reduction of cost and/or as a realized gain.

The fund may have earned certain fees in connection with its senior loan purchasing activities. These fees, if any, are treated as market discount and are amortized into income in the Statement of operations.

Foreign currency translation The accounting records of the fund are maintained in U.S. dollars. The fair value of foreign securities, currency holdings, and other assets and liabilities is recorded in the books and records of the fund after translation to U.S. dollars based on the exchange rates on that day. The cost of each security is determined using historical exchange rates. Income and withholding taxes are translated at prevailing exchange rates when earned or incurred. The fund does not isolate that portion of realized or unrealized gains or losses resulting from changes in the foreign exchange rate on investments from fluctuations arising from changes in the market prices of the securities. Such gains and losses are included with the net realized and unrealized gain or loss on investments. Net realized gains and losses on foreign currency transactions represent net realized exchange gains or losses on disposition of foreign currencies, currency gains and losses realized between the trade and settlement dates on securities transactions and the difference between the amount of investment income and foreign withholding taxes recorded on the fund's books and the U.S. dollar equivalent amounts actually received or paid. Net unrealized appreciation and depreciation of assets and liabilities in foreign currencies arise from changes in the value of assets and liabilities other than investments at the period end, resulting from changes in the exchange rate.

Forward currency contracts The fund buys and sells forward currency contracts, which are agreements between two parties to buy and sell currencies at a set price on a future date. These contracts are used for hedging currency exposures.

The U.S. dollar value of forward currency contracts is determined using current forward currency exchange rates supplied by a quotation service. The fair value of the contract will fluctuate with changes in currency exchange rates. The contract is marked to market daily and the change in fair value is recorded as an unrealized gain or loss. The fund records a realized gain or loss equal to the difference between the value of the contract at the time it was opened and the value at the time it was closed when the contract matures or by delivery of the currency. The fund could be exposed to risk if the value of the currency changes unfavorably, if the counterparties to the contracts are unable to meet the terms of their contracts or if the fund is unable to enter into a closing position. Risks may exceed amounts recognized on the Statement of assets and liabilities.

Forward currency contracts outstanding at period end, if any, are listed after the fund's portfolio.

Credit default contracts The fund entered into OTC and/or centrally cleared credit default contracts to hedge credit risk, for gaining liquid exposure to individual names, to hedge market risk, for gaining exposure to specific sectors and to gain exposure on individual names and/or baskets of securities.

In OTC and centrally cleared credit default contracts, the protection buyer typically makes a periodic stream of payments to a counterparty, the protection seller, in exchange for the right to receive a contingent payment upon the occurrence of a credit event on the reference obligation or all other equally ranked obligations of the reference entity. Credit events are contract specific but may include bankruptcy, failure to pay, restructuring and obligation acceleration. For OTC credit default contracts, an upfront payment received by the fund is recorded as a liability on the fund's books. An upfront payment made by the fund is recorded as an asset on the fund's books. Centrally cleared credit default contracts provide the same rights to the protection buyer and seller except the payments between parties, including upfront premiums, are settled through a central clearing agent through variation margin payments. Upfront and periodic payments received or paid by the fund for OTC and centrally cleared credit default contracts are

recorded as realized gains or losses at the reset date or close of the contract. The OTC and centrally cleared credit default contracts are marked to market daily based upon quotations from an independent pricing service or market makers. Any change in value of OTC credit default contracts is recorded as an unrealized gain or loss. Daily fluctuations in the value of centrally cleared credit default contracts are recorded in variation margin on the Statement of assets and liabilities and recorded as unrealized gain or loss. Upon the occurrence of a credit event, the difference between the par value and fair value of the reference obligation, net of any proportional amount of the upfront payment, is recorded as a realized gain or loss.

In addition to bearing the risk that the credit event will occur, the fund could be exposed to market risk due to unfavorable changes in interest rates or in the price of the underlying security or index or the possibility that the fund may be unable to close out its position at the same time or at the same price as if it had purchased the underlying reference obligations. In certain circumstances, the fund may enter into offsetting OTC and centrally cleared credit default contracts which would mitigate its risk of loss. Risks of loss may exceed amounts recognized on the Statement of assets and liabilities. The fund's maximum risk of loss from counterparty risk, either as the protection seller or as the protection buyer, is the fair value of the contract. This risk may be mitigated for OTC credit default contracts by having a master netting arrangement between the fund and the counterparty and for centrally cleared credit default contracts through the daily exchange of variation margin. Counterparty risk is further mitigated with respect to centrally cleared credit default swap contracts due to the clearinghouse guarantee fund and other resources that are available in the event of a clearing member default. Where the fund is a seller of protection, the maximum potential amount of future payments the fund may be required to make is equal to the notional amount.

OTC and centrally cleared credit default contracts outstanding, including their respective notional amounts at period end, if any, are listed after the fund's portfolio.

At close of the reporting period, the fund has deposited cash valued at \$322,948 in a segregated account to cover margin requirements on open centrally cleared swap.

Master agreements The fund is a party to ISDA (International Swaps and Derivatives Association, Inc.) Master Agreements that govern OTC derivative and foreign exchange contracts and Master Securities Forward Transaction Agreements that govern transactions involving mortgage-backed and other assetbacked securities that may result in delayed delivery (Master Agreements) with certain counterparties entered into from time to time. The Master Agreements may contain provisions regarding, among other things, the parties' general obligations, representations, agreements, collateral requirements, events of default and early termination. With respect to certain counterparties, in accordance with the terms of the Master Agreements, collateral pledged to the fund is held in a segregated account by the fund's custodian and, with respect to those amounts which can be sold or repledged, are presented in the fund's portfolio.

Collateral pledged by the fund is segregated by the fund's custodian and identified in the fund's portfolio. Collateral can be in the form of cash or debt securities issued by the U.S. Government or related agencies or other securities as agreed to by the fund and the applicable counterparty. Collateral requirements are determined based on the fund's net position with each counterparty.

With respect to ISDA Master Agreements, termination events applicable to the fund may occur upon a decline in the fund's net assets below a specified threshold over a certain period of time. Termination events applicable to counterparties may occur upon a decline in the counterparty's long-term or short-term credit ratings below a specified level. In each case, upon occurrence, the other party may elect to terminate early and cause settlement of all derivative and foreign exchange contracts outstanding, including the payment of any losses and costs resulting from such early termination, as reasonably determined by the terminating party. Any decision by one or more of the fund's counterparties to elect early termination could impact the fund's future derivative activity.

At the close of the reporting period, the fund had a net liability position of \$15,257 on open derivative contracts subject to the Master Agreements. There was no collateral pledged by the fund at period end for these agreements.

Interfund lending The fund, along with other Putnam funds, may participate in an interfund lending program pursuant to an exemptive order issued by the SEC. This program allows the fund to borrow from or lend to other Putnam funds that permit such transactions. Interfund lending transactions are subject to each fund's investment policies and borrowing and lending limits. Interest earned or paid on the interfund lending transaction will be based on the average of certain current market rates. During the reporting period, the fund did not utilize the program.

Lines of credit The fund participates, along with other Putnam funds, in a \$320 million syndicated unsecured committed line of credit, provided by State Street (\$160 million) and JPMorgan (\$160 million), and a \$235.5 million unsecured uncommitted line of credit, provided by State Street. Prior to May 2, 2023, the fund participated, along with other Putnam funds, in a \$100 million unsecured committed line of credit and a \$235.5 million unsecured uncommitted line of credit, both provided by State Street. Borrowings may be made for temporary or emergency purposes, including the funding of shareholder redemption requests and trade settlements. Interest is charged to the fund based on the fund's borrowing at a rate equal to 1.25% plus the higher of (1) the Federal Funds rate and (2) the Overnight Bank Funding Rate for the committed line of credit and 1.30% plus the higher of (1) the Federal Funds rate and (2) the Overnight Bank Funding Rate for the uncommitted line of credit. A closing fee equal to 0.04% of the committed line of credit and 0.04% of the uncommitted line of credit has been paid by the participating funds and a \$75,000 fee has been paid by the participating funds to State Street as agent of the syndicated committed line of credit. In addition, a commitment fee of 0.21% per annum on any unutilized portion of the committed line of credit is allocated to the participating funds based on their relative net assets and paid quarterly. During the reporting period, the fund had no borrowings against these arrangements.

Federal taxes It is the policy of the fund to distribute all of its taxable income within the prescribed time period and otherwise comply with the provisions of the Internal Revenue Code of 1986, as amended (the Code), applicable to regulated investment companies.

The fund is subject to the provisions of Accounting Standards Codification 740 Income Taxes (ASC 740). ASC 740 sets forth a minimum threshold for financial statement recognition of the benefit of a tax position taken or expected to be taken in a tax return. The fund did not have a liability to record for any unrecognized tax benefits in the accompanying financial statements. No provision has been made for federal taxes on income, capital gains or unrealized appreciation on securities held nor for excise tax on income and capital gains. Each of the fund's federal tax returns for the prior three fiscal years remains subject to examination by the Internal Revenue Service.

The fund may also be subject to taxes imposed by governments of countries in which it invests. Such taxes are generally based on either income or gains earned or repatriated. The fund accrues and applies such taxes to net investment income, net realized gains and net unrealized gains as income and/or capital gains are earned. In some cases, the fund may be entitled to reclaim all or a portion of such taxes, and such reclaim amounts, if any, are reflected as an asset on the fund's books. In many cases, however, the fund may not receive such amounts for an extended period of time, depending on the country of investment.

Under the Regulated Investment Company Modernization Act of 2010, the fund will be permitted to carry forward capital losses incurred for an unlimited period and the carry forwards will retain their character as either short-term or long-term capital losses. At December 31, 2022, the fund had the following capital loss carryovers available, to the extent allowed by the Code, to offset future net capital gain, if anv:

| | Loss carryover | | | | | |
|-------------------------|----------------|--------------|--------------|--|--|--|
| Short-term Long-term To | | | | | | |
| | \$1,085,113 | \$16,933,644 | \$18,018,757 | | | |

Tax cost of investments includes adjustments to net unrealized appreciation (depreciation) which may not necessarily be final tax cost basis adjustments, but closely approximate the tax basis unrealized gains and losses that may be realized and distributed to shareholders. The aggregate identified cost on a tax basis is \$149,931,217, resulting in gross unrealized appreciation and depreciation of \$899,081 and \$12,112,642, respectively, or net unrealized depreciation of \$11,213,561.

Distributions to shareholders Distributions to shareholders from net investment income are recorded by the fund on the ex-dividend date. Distributions from capital gains, if any, are recorded on the ex-dividend date and paid at least annually. The amount and character of income and gains to be distributed are deter $mined\ in\ accordance\ with\ income\ tax\ regulations, which\ may\ differ\ from\ generally$ accepted accounting principles. Dividend sources are estimated at the time of declaration. Actual results may vary. Any non-taxable return of capital cannot be determined until final tax calculations are completed after the end of the fund's fiscal year. Reclassifications are made to the fund's capital accounts to reflect income and gains available for distribution (or available capital loss carryovers) under income tax regulations.

Expenses of the Trust Expenses directly charged or attributable to any fund will be paid from the assets of that fund. Generally, expenses of the Trust will be allocated among and charged to the assets of each fund on a basis that the Trustees deem fair and equitable, which may be based on the relative assets of each fund or the nature of the services performed and relative applicability to each fund.

Beneficial interest At the close of the reporting period, insurance companies or their separate accounts were record owners of the majority of class IB shares of the fund. Approximately 32.2% of the fund's class IB shares are held by one insurance company.

Note 2 - Management fee, administrative services and other transactions

The fund pays Putnam Management a management fee (based on the fund's average net assets and computed and paid monthly) at annual rates that may vary based on the average of the aggregate net assets of all open-end mutual funds sponsored by Putnam Management (excluding net assets of funds that are invested in, or that are invested in by, other Putnam funds to the extent necessary to avoid "double counting" of those assets). Such annual rates may vary as follows:

0.720% of the first \$5 billion, 0.670% of the next \$5 billion 0.620% of the next \$10 billion, 0.570% of the next \$10 billion, 0.520% of the next \$50 billion, 0.500% of the next \$50 billion, 0.490% of the next \$100 billion and 0.485% of any excess thereafter.

For the reporting period, the management fee represented an effective rate (excluding the impact from any expense waivers in effect) of 0.278% of the fund's average net assets.

Putnam Management has contractually agreed, through April 30, 2025, to waive fees and/or reimburse the fund's expenses to the extent necessary to limit the cumulative expenses of the fund, exclusive of brokerage, interest, taxes, investment-related expenses, extraordinary expenses, acquired fund fees and expenses and payments under the fund's investor servicing contract, investment management contract and distribution plan, on a fiscal year-to-date basis to an annual rate of 0.20% of the fund's average net assets over such fiscal year-to-date period. During the reporting period, the fund's expenses were not reduced as a

PIL is authorized by the Trustees to manage a separate portion of the assets of the fund as determined by Putnam Management from time to time. PIL did not manage any portion of the assets of the fund during the reporting period. If Putnam Management were to engage the services of PIL, Putnam Management would pay a quarterly sub-management fee to PIL for its services at an annual rate of 0.20% of the average net assets of the portion of the fund managed by PIL.

The fund reimburses Putnam Management an allocated amount for the compensation and related expenses of certain officers of the fund and their staff who provide administrative services to the fund. The aggregate amount of all such reimbursements is determined annually by the Trustees.

Custodial functions for the fund's assets are provided by State Street. Custody fees are based on the fund's asset level, the number of its security holdings and transaction volumes.

Putnam Investor Services, Inc., an affiliate of Putnam Management, provides investor servicing agent functions to the fund. Putnam Investor Services, Inc. was paid a monthly fee for investor servicing at an annual rate of 0.07% of the fund's average daily net assets. During the reporting period, the expenses for each class of shares related to investor servicing fees were as follows:

| Class IA | \$33,703 |
|----------|----------|
| Class IB | 14,635 |
| Total | \$48,338 |

The fund has entered into expense offset arrangements with Putnam Investor Services, Inc. and State Street whereby Putnam Investor Services, Inc.'s and State Street's fees are reduced by credits allowed on cash balances. For the reporting period, the fund's expenses were reduced by \$587 under the expense offset arrangements.

Each Independent Trustee of the fund receives an annual Trustee fee, of which \$119, as a quarterly retainer, has been allocated to the fund, and an additional fee

for each Trustees meeting attended. Trustees also are reimbursed for expenses they incur relating to their services as Trustees.

The fund has adopted a Trustee Fee Deferral Plan (the Deferral Plan) which allows the Trustees to defer the receipt of all or a portion of Trustees fees payable on or after July 1, 1995. The deferred fees remain invested in certain Putnam funds until distribution in accordance with the Deferral Plan.

The fund has adopted an unfunded noncontributory defined benefit pension plan (the Pension Plan) covering all Trustees of the fund who have served as a Trustee for at least five years and were first elected prior to 2004. Benefits under the Pension Plan are equal to 50% of the Trustee's average annual attendance and retainer fees for the three years ended December 31, 2005. The retirement benefit is payable during a Trustee's lifetime, beginning the year following retirement, for the number of years of service through December 31, 2006. Pension expense for the fund is included in Trustee compensation and expenses in the Statement of operations. Accrued pension liability is included in Payable for Trustee compensation and expenses in the Statement of assets and liabilities. The Trustees have terminated the Pension Plan with respect to any Trustee first elected after 2003.

The fund has adopted a distribution plan (the Plan) with respect to its class IB shares pursuant to Rule 12b-1 under the Investment Company Act of 1940. The purpose of the Plan is to compensate Putnam Retail Management Limited Partnership, an indirect wholly-owned subsidiary of Putnam Investments, LLC, for services provided and expenses incurred in distributing shares of the fund. The Plan provides for payment by the fund to Putnam Retail Management Limited

Partnership at an annual rate of up to 0.35% of the average net assets attributable to the fund's class IB shares. The Trustees have approved payment by the fund at an annual rate of 0.25% of the average net assets attributable to the fund's class IB shares. The expenses related to distribution fees during the reporting period are included in Distribution fees in the Statement of operations.

Note 3 — Purchases and sales of securities

During the reporting period, the cost of purchases and the proceeds from sales, excluding short-term investments, were as follows:

| | Cost of purchases | Proceeds from sales |
|--|-------------------|------------------------|
| Investments in securities (Long-term) | \$28,758,412 | \$24,368,460 |
| U.S. government securities (Long-term) | _ | _ |
| Total | \$28,758,412 | \$24,368,460 |

The fund may purchase or sell investments from or to other Putnam funds in the ordinary course of business, which can reduce the fund's transaction costs, at prices determined in accordance with SEC requirements and policies approved by the Trustees. During the reporting period, purchases or sales of long-term securities from or to other Putnam funds, if any, did not represent more than 5% of the fund's total cost of purchases and/or total proceeds from sales.

Note 4 — Capital shares

At the close of the reporting period, there were an unlimited number of shares of beneficial interest authorized. Subscriptions and redemptions are presented at the omnibus level. Transactions in capital shares were as follows:

| | Class IA shares | | | | Class IB shares | | | |
|--|--------------------------|-------------|---------------------|---------------|--------------------------|--------------|---------------------|---------------|
| | Six months ended 6/30/23 | | Year ended 12/31/22 | | Six months ended 6/30/23 | | Year ended 12/31/22 | |
| | Shares | Amount | Shares | Amount | Shares | Amount | Shares | Amount |
| Shares sold | 556,320 | \$2,966,223 | 968,114 | \$5,398,356 | 3,577,411 | \$18,736,228 | 5,483,499 | \$30,031,186 |
| Shares issued in connection with reinvestment of distributions | 1,035,360 | 5,311,398 | 1,021,448 | 5,852,893 | 413,033 | 2,098,210 | 380,723 | 2,162,504 |
| | 1,591,680 | 8,277,621 | 1,989,562 | 11,251,249 | 3,990,444 | 20,834,438 | 5,864,222 | 32,193,690 |
| Shares repurchased | (1,122,763) | (5,961,357) | (3,057,964) | (16,978,774) | (2,597,430) | (13,699,184) | (6,582,917) | (36,112,400) |
| Net increase (decrease) | 468,917 | \$2,316,264 | (1,068,402) | \$(5,727,525) | 1,393,014 | \$7,135,254 | (718,695) | \$(3,918,710) |

Note 5 — Affiliated transactions

Transactions during the reporting period with any company which is under common ownership or control were as follows:

| Name of affiliate | Fair value as of 12/31/22 | Purchase cost | Sale proceeds | Investment income | Shares outstanding and fair value as of 6/30/23 |
|---------------------------------------|---------------------------|---------------|---------------|-------------------|---|
| Short-term investments | | | | | |
| Putnam Short Term Investment Fund* | \$6,780,708 | \$28,532,662 | \$26,478,549 | \$184,751 | \$8,834,821 |
| Total Short-term investments | \$6,780,708 | \$28,532,662 | \$26,478,549 | \$184,751 | \$8,834,821 |

^{*}Management fees charged to Putnam Short Term Investment Fund have been waived by Putnam Management. There were no realized or unrealized gains or losses during the period.

Note 6 — Market, credit and other risks

In the normal course of business, the fund trades financial instruments and enters into financial transactions where risk of potential loss exists due to changes in the market (market risk) or failure of the contracting party to the transaction to perform (credit risk). The fund may be exposed to additional credit risk that an institution or other entity with which the fund has unsettled or open transactions will default. Investments in foreign securities involve certain risks, including those related to economic instability, unfavorable political developments, and currency fluctuations. The fund may invest in higher-yielding, lower-rated bonds that may have a higher rate of default.

On July 27, 2017, the United Kingdom's Financial Conduct Authority ("FCA"), which regulates LIBOR, announced its intention to cease compelling banks to provide the quotations needed to sustain LIBOR after 2021. ICE Benchmark Administration, the administrator of LIBOR, ceased publication of most LIBOR settings on a representative basis at the end of 2021 and is expected to cease publication of a majority of U.S. dollar LIBOR settings on a representative basis after June 30, 2023. In addition, global regulators have announced that, with limited exceptions, no new LIBOR-based contracts should be entered into after 2021. LIBOR has historically been a common benchmark interest rate index used to make adjustments to variable-rate loans. It is used throughout global banking and financial industries to determine interest rates for a variety of financial instruments and borrowing arrangements. Actions by regulators have resulted in the establishment of alternative reference rates to LIBOR in most major currencies. Various financial industry groups have been planning for the transition away from LIBOR, but there are obstacles to converting certain longer-term securities and transactions to new reference rates. Markets are developing slowly and questions around liquidity in these rates and how to appropriately adjust these rates to mitigate any economic value transfer at the time of transition remain a significant concern. Neither the effect of the transition process nor its ultimate success can yet be known. The transition process might lead to increased volatility and illiquidity in markets that rely on LIBOR to determine interest rates. It could also lead to a reduction in the value of some LIBOR-based investments and reduce the effectiveness of related transactions, such as hedges. While some LIBOR-based instruments may contemplate a scenario where LIBOR is no longer available by providing for an alternative rate-setting methodology, not all may have such provisions and there may

be significant uncertainty regarding the effectiveness of any such alternative methodologies. Since the usefulness of LIBOR as a benchmark could deteriorate during the transition period, these effects could occur at any time.

Note 7 — Senior loan commitments

Senior loans are purchased or sold on a when-issued or delayed delivery basis and may be settled a month or more after the trade date, which from time to time can delay the actual investment of available cash balances; interest income is accrued based on the terms of the securities. Senior loans can be acquired through an agent, by assignment from another holder of the loan, or as a participation interest in another holder's portion of the loan. When the fund invests in a loan or participation, the fund invests in a loan or participation interest in another holder.is subject to the risk that an intermediate participant between the fund and the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund, in addition to the risk that the borrower will fail to meet its obligations to the fund and the borrower will fail to meet its obligations to the fund and the borrower will fail to meet its obligations to the fund and the borrower will fail to meet its obligation to the risk that the borrower will fail to meet its obligation to the risk that the borrower will fail to meet its obligation to the risk that the borrower will fail to meet its obligation to the risk that the borrower will fail to meet its obligation to the risk that the borrower will be added to the risk that the borrower will be added to the risk that the borrower will be added to the risk that the borrower will be added to the risk that the borrower will be added to the risk that theunder the loan may default on its obligations.

Note 8 — Summary of derivative activity

The volume of activity for the reporting period for any derivative type that was held during the period is listed below and was based on an average of the holdings at the end of each fiscal quarter:

| Forward currency contracts (contract amount) | \$1,200,000 |
|---|-------------|
| Centrally cleared credit default contracts (notional) | \$1,500,000 |
| Warrants (number of warrants) | 30 |

The following is a summary of the fair value of derivative instruments as of the close of the reporting period:

Fair value of derivative instruments as of the close of the reporting period

| | Asset de | rivatives | Liability derivatives | | |
|--|--|------------|--|------------|--|
| Derivatives not accounted for as hedging instruments under ASC 815 | Statement of assets and liabilities location | Fair value | Statement of assets and liabilities location | Fair value | |
| Credit contracts | Receivables | \$102,962* | Payables | \$- | |
| Foreign exchange contracts | Receivables | _ | Payables | 15,257 | |
| Total | | \$102,962 | | \$15,257 | |

^{*}Includes cumulative appreciation/depreciation of centrally cleared swaps as reported in the fund's portfolio. Only current day's variation margin is reported within the Statement of assets and liabilities.

The following is a summary of realized and change in unrealized gains or losses of derivative instruments in the Statement of operations for the reporting period (Note 1):

Amount of realized gain or (loss) on derivatives recognized in net gain or (loss) on investments

| Derivatives not accounted for as hedging instruments under ASC 815 | Forward currency contracts | Swaps | Total |
|--|----------------------------|----------|----------|
| Credit contracts | \$- | \$78,016 | \$78,016 |
| Foreign exchange contracts | (855) | _ | \$(855) |
| Total | \$(855) | \$78,016 | \$77,161 |

Change in unrealized appreciation or (depreciation) on derivatives recognized in net gain or (loss) on investments

| Derivatives not accounted for as hedging instruments under ASC 815 | Warrants | Forward currency contracts | Swaps | Total |
|--|----------|----------------------------|-----------|-----------|
| Credit contracts | \$- | \$— | \$(3,087) | \$(3,087) |
| Foreign exchange contracts | _ | (1,672) | _ | \$(1,672) |
| Equity contracts | 7 | _ | _ | \$7 |
| Total | \$7 | \$(1,672) | \$(3,087) | \$(4,752) |

Note 9 — Offsetting of financial and derivative assets and liabilities

The following table summarizes any derivatives, repurchase agreements and reverse repurchase agreements, at the end of the reporting period, that are subject to an enforceable master netting agreement or similar agreement. For securities lending transactions or borrowing transactions associated with securities sold short, if any, see Note 1. For financial reporting purposes, the fund does not offset financial assets and financial liabilities that are subject to the master netting agreements in the Statement of assets and liabilities.

| | Bank of America N.A. | Barclays Capital, Inc. (clearing broker) | JPMorgan Chase Bank N.A. | Morgan Stanley & Co. International PLC | State Street Bank and Trust Co. | UBS AG | Total |
|--|-------------------------|---|--------------------------------|---|---------------------------------------|---------|----------|
| Assets: | | | | | | | |
| Centrally cleared credit default contracts [§] | \$- | \$24,369 | \$ | \$- | \$- | \$- | \$24,369 |
| Forward currency contracts# | _ | _ | _ | _ | _ | _ | _ |
| Total Assets | \$- | \$24,369 | \$- | \$- | \$- | \$— | \$24,369 |
| Liabilities: | | | | | | | |
| Centrally cleared credit default contracts [§] | _ | _ | _ | _ | _ | _ | _ |
| Forward currency contracts# | 1,095 | _ | 1,439 | 1,673 | 10,534 | 516 | 15,257 |
| Total Liabilities | \$1,095 | \$- | \$1,439 | \$1,673 | \$10,534 | \$516 | \$15,257 |
| Total Financial and Derivative Net Assets | \$(1,095) | \$24,369 | \$(1,439) | \$(1,673) | \$(10,534) | \$(516) | \$9,112 |
| Total collateral received (pledged)†## | \$- | \$- | \$- | \$- | \$— | \$— | |
| Netamount | \$(1,095) | \$24,369 | \$(1,439) | \$(1,673) | \$(10,534) | \$(516) | |
| Controlled collateral received (including TBA commitments)** | \$- | \$- | \$- | \$- | \$— | \$— | \$- |
| Uncontrolled collateral received | \$— | \$— | \$- | \$- | \$— | \$— | \$- |
| Collateral (pledged) (including TBA commitments)** | \$- | \$— | \$— | \$- | \$— | \$— | \$- |

^{**} Included with Investments in securities on the Statement of assets and liabilities.

Note 10 — Of special note

On May 31, 2023, Franklin Resources, Inc. ("Franklin Resources") and Great-West Lifeco, Inc., the parent company of Putnam U.S. Holdings I, LLC ("Putnam Holdings"), announced that they have entered into a definitive agreement for a subsidiary of Franklin Resources to acquire Putnam Holdings in a stock and cash transaction.

As part of this transaction, Putnam Management, a wholly-owned subsidiary of Putnam Holdings and investment manager to the Putnam family of funds (the "Putnam Funds"), would become an indirect wholly-owned subsidiary of Franklin Resources.

The transaction is subject to customary closing conditions, including receipt of applicable regulatory approvals. Subject to such approvals and the satisfaction of these conditions, the transaction is currently expected to be consummated in the fourth quarter of 2023.

Under the Investment Company Act of 1940, as amended, consummation of the transaction will result in the automatic termination of the investment management contract between each Putnam Fund and Putnam Management and any related sub-management and sub-advisory contracts, where applicable. In anticipation of this automatic termination, on June 23, 2023, the Board of Trustees of the Putnam Funds approved a new investment management contract between each Putnam Fund and Putnam Management (and new sub-management and sub-advisory contracts, if applicable), which will be presented to the shareholders of each Putnam Fund for their approval at shareholder meetings currently expected to occur in October 2023. Proxy solicitation materials related to these meetings have been made available to shareholders that held shares of the fund at the close of business on July 24, 2023.

[†] Additional collateral may be required from certain brokers based on individual agreements.

[#]Covered by master netting agreement (Note 1).

^{##} Any over-collateralization of total financial and derivative net assets is not shown. Collateral may include amounts related to unsettled agreements.

[§] Includes current day's variation margin only as reported on the Statement of assets and liabilities, which is not collateralized. Cumulative appreciation/(depreciation) for futures contracts and centrally cleared swap contracts is represented in the tables listed after the fund's portfolio. Collateral pledged for initial margin on centrally cleared swap contracts, which is not included in the table above, amounted to \$322,948.

Trustee approval of management contract

Consideration of your fund's new and interim management and sub-management contracts

At their meeting on June 23, 2023, the Board of Trustees of your fund, including all of the Trustees who are not "interested persons" (as this term is defined in the Investment Company Act of 1940, as amended (the "1940 Act")) of the Putnam mutual funds, closed-end funds and exchange-traded funds (collectively, the "funds") (the "Independent Trustees") approved, subject to approval by your fund's shareholders, a new management contract with Putnam Investment Management ("Putnam Management") and a new sub-management contract between Putnam Management and its affiliate, Putnam Investments Limited ("PIL") (collectively, the "New Management Contracts"). The Trustees considered the proposed New Management Contracts in connection with the planned acquisition of Putnam U.S. Holdings I, LLC ("Putnam Holdings") by a subsidiary of Franklin Resources, Inc. ("Franklin Templeton"). The Trustees considered that, on May 31, 2023, Franklin Templeton and Great-West Lifeco Inc., the parent company of Putnam Holdings, announced that they had entered into a definitive agreement for a subsidiary of Franklin Templeton to acquire Putnam Holdings in a stock and cash transaction (the "Transaction"). The Trustees noted that Putnam Holdings was the parent company of Putnam Management and PIL. The Trustees were advised that the Transaction would result in a "change of control" of Putnam Management and PIL and would cause your fund's current Management Contract with Putnam Management and Sub-Management Contract with PIL (collectively, the "Current Management Contracts") to terminate in accordance with the 1940 Act. The Trustees considered that the New Management Contracts would take effect upon the closing of the Transaction, which was expected to occur in the fourth quarter of 2023.

In addition to the New Management Contracts, the Trustees also approved interim management and sub-management contracts with Putnam Management and PIL, respectively (the "Interim Management Contracts"), which would take effect in the event that for any reason shareholder approval of a New Management Contract was not received by the time of the Transaction closing. The Trustees considered that each Interim Management Contract that became effective would remain in effect until shareholders approved the proposed New Management Contract, or until 150 days elapse after the closing of the Transaction, whichever occurred first. The considerations and conclusions discussed in connection with the Trustees' consideration of the New Management Contracts and the continuance of your fund's Current Management Contracts also apply to the Trustees' consideration of the Interim Management Contracts, supplemented by consideration of the terms, nature and reason for any Interim Management Contract.

The Independent Trustees met with their independent legal counsel, as defined in Rule 0-1(a)(6) under the 1940 Act (their "independent legal counsel"), and representatives of Putnam Management and its parent company, Power Corporation of Canada, to discuss the potential Transaction, including the timing and structure of the Transaction and its implications for Putnam Management and the funds, during their regular meeting on November 18, 2022, and the full Board of Trustees further discussed these matters with representatives of Putnam Management at its regular meeting on December 15, 2022. At a special meeting on December 20, 2022, the full Board of Trustees met with representatives of Putnam Management, Power Corporation of Canada and Franklin Templeton to further discuss the potential Transaction, including Franklin Templeton's strategic plans for Putnam Management's asset

management business and the funds, potential sources of synergy between Franklin Templeton and Putnam Management, potential areas of partnership between Power Corporation of Canada and Franklin Templeton, Franklin Templeton's distribution capabilities, Franklin Templeton's existing service provider relationships and Franklin Templeton's recent acquisitions of other asset management firms.

In order to assist the Independent Trustees in their consideration of the New Management Contracts and other anticipated impacts of the Transaction on the funds and their shareholders, independent legal counsel for the Independent Trustees furnished an initial information request to Franklin Templeton (the "Initial Franklin Request"). At a special meeting of the full Board of Trustees held on January 25, 2023, representatives of Franklin Templeton addressed the firm's responses to the Initial Franklin Request. At the meeting, representatives of Franklin Templeton discussed, among other things, the business and financial condition of Franklin Templeton and its affiliates, Franklin Templeton's U.S. registered fund operations, its recent acquisition history, Franklin Templeton's intentions regarding the operation of Putnam Management and the funds following the completion of the potential Transaction and expected benefits to the funds and Putnam Management that might result from the Transaction.

The Board of Trustees actively monitored developments with respect to the potential Transaction throughout the period leading up to the public announcement of a final sale agreement on May 31, 2023. The Independent Trustees met to discuss these matters at their regular meetings on January 27, April 20 and May 19, 2023. The full Board of Trustees also discussed developments at their regular meeting on February 23, 2023. Following the public announcement of the Transaction on May 31, 2023, independent legal counsel for the Independent Trustees furnished a supplemental information request (the "Supplemental Franklin Request") to Franklin Templeton. At the Board of Trustees' regular in-person meeting held on June 22-23, 2023, representatives of Putnam Management and Power Corporation of Canada provided further information regarding, among other matters, the final terms of the Transaction and efforts undertaken to retain Putnam employees. The Contract Committee of the Board of Trustees also met on June 22, 2023 to discuss Franklin Templeton's responses to the Supplemental Franklin Request. Mr. Reynolds, the only Trustee affiliated with Putnam Management, participated in portions of these meetings to provide the perspective of the Putnam organization, but did not otherwise participate in the deliberations of the Independent Trustees or the Contract Committee regarding the potential Transaction.

After the presentations and after reviewing the written materials provided, the Independent Trustees met at their in-person meeting on June 23, 2023 to consider the New Management Contracts for each fund, proposed to become effective upon the closing of the Transaction, and the filing of a preliminary proxy statement. At this meeting and throughout the process, the Independent Trustees also received advice from their independent legal counsel regarding their responsibilities in evaluating the potential Transaction and the New Management Contracts. The Independent Trustees reviewed the terms of the proposed New Management Contracts and the differences between the New Management Contracts and the Current Management Contracts. They noted that the terms of the proposed New Management Contracts were substantially identical to the Current Management Contracts, except for

certain changes designed largely to address differences among various of the existing contracts, which had been developed and implemented at different times in the past.

In considering the approval of the proposed New Management Contracts, the Board of Trustees took into account a number of factors, including¹

- Franklin Templeton's and Putnam Management's belief that the Transaction would not adversely affect the funds or their shareholders and their belief that the Transaction was likely to result in certain benefits (described below) for the funds and their shareholders:
- That Franklin Templeton did not intend to make any material change in Putnam Management's senior investment professionals (other than certain changes related to reporting structure and organization of personnel discussed below), including the portfolio managers of the funds, or to the firm's operating locations as a result of the Transaction;
- That Franklin Templeton intended for Putnam Management's equity investment professionals to continue to operate largely independently from Franklin Templeton, reporting to Franklin Templeton's Head of Public Markets following the Transaction;
- That, while Putnam Management's organizational structure was not expected to change immediately following the Transaction, Franklin Templeton intended to revise Putnam Management's reporting structure in order to include Putnam Management's fixed income investment professionals in Franklin Templeton's fixed income group and to include Putnam Management's Global Asset Allocation ("GAA") investment professionals in Franklin Templeton's investment solutions group, with both Franklin Templeton groups reporting to Franklin Templeton's Head of Public Markets;
- Franklin Templeton's expectation that there would not be any changes in the investment objectives, strategies or portfolio holdings of the funds as a result of the Transaction;
- That neither Franklin Templeton nor Putnam Management had any current plans to propose changes to the funds' existing management fees or expense limitations, or current plans to make changes to the funds' existing distribution arrangements;
- Franklin Templeton's and Putnam Management's representations that, following the Transaction, there was not expected to be any diminution in the nature, quality and extent of services provided to the funds and their shareholders by Putnam Management and PIL, including compliance and other non-advisory services;
- (viii) That Franklin Templeton did not currently plan to change the branding of the funds or to change the lineup of funds in connection with the Transaction but would continue to evaluate how best to position the funds in the market;
- The possible benefits accruing to the funds and their shareholders as a result of the Transaction, including:
 - a. That the scale of Franklin Templeton's investment operations platform would increase the investment and operational resources available to the funds;
 - b. That the Putnam open-end funds would benefit from Franklin Templeton's large retail and institutional global distribution capabilities and significant network of intermediary relationships, which may provide additional opportunities for

- the funds to increase assets and reduce expenses by spreading expenses over a larger asset base; and
- c. Potential benefits to shareholders of the Putnam open-end funds that could result from the alignment of certain fund features and shareholder benefits with those of other funds sponsored by Franklin Templeton and its affiliates and access to a broader array of investment opportunities;
- The financial strength, reputation, experience and resources of Franklin Templeton and its investment advisory subsidiaries;
- Franklin Templeton's expectation that the Transaction would not impact the capabilities or responsibilities of Putnam Management's Investment Division (other than any impact related to reporting structure changes for Putnam Management's equity, fixed income and GAA investment groups and to including Putnam Management's fixed income and GAA investment professionals in existing Franklin Templeton investment groups, as discussed above) and that any changes to the Investment Division over the longer term would be made in order to achieve perceived operational efficiencies or improvements to the portfolio management process;
- (xii) Franklin Templeton's commitment to maintaining competitive compensation arrangements to allow Putnam Management to continue to attract and retain highly qualified personnel and Putnam Management's and Franklin Templeton's efforts to retain personnel, including efforts implemented since the Transaction was announced;
- (xiii) That the current senior management teams at Putnam Management and Power Corporation of Canada had indicated their strong support of the Transaction and that Putnam Management had recommended that the Board of Trustees approve the New Management Contracts; and
- (xiv) Putnam Management's and Great-West Lifeco Inc.'s commitment to bear all expenses incurred by the funds in connection with the Transaction, including all costs associated with the proxy solicitation in connection with seeking shareholder approval of the New Management Contracts.

Finally, in considering the proposed New Management Contracts, the Board of Trustees also took into account their concurrent deliberations and conclusions, as described below, in connection with their annual review of the funds' Current Management Contracts and the approval of their continuance, effective July 1, 2023, and the extensive materials that they had reviewed in connection with that review process.

Based upon the foregoing considerations, on June 23, 2023, the Board of Trustees, including all of the Independent Trustees, unanimously approved the proposed New Management Contracts and determined to recommend their approval to the shareholders of the funds.

General conclusions — Current Management Contracts

The Board of Trustees oversees the management of each fund and, as required by law, determines annually whether to approve the continuance of your fund's management contract with Putnam Management and the sub-management contract with respect to your fund between Putnam Management and PIL. (Because PIL is an affiliate of Putnam Management and Putnam Management remains fully responsible for all services provided by PIL, the Trustees have not attempted to evaluate PIL as a separate entity.) The Board of Trustees, with the assistance of its Contract Committee, requests and evaluates all information it deems reasonably necessary under the circumstances in connection with its annual contract review. The Contract Committee consists solely of Independent Trustees.

At the outset of the review process, members of the Board of Trustees' independent staff and independent legal counsel considered any possible changes to the annual contract review materials furnished to the Contract Committee during the course of the previous year's review and, as applicable, identified those changes to Putnam Management. Following these discussions and in consultation with the Contract Committee, the Independent Trustees' independent legal counsel requested that Putnam Management and its affiliates furnish specified information, together with any additional information that Putnam Management considered relevant, to the Contract Committee. Over the course of several months ending in June 2023, the Contract Committee met on a number of occasions with representatives of Putnam Management, and separately in executive session, to consider the information that Putnam Management provided. Throughout this process, the Contract Committee was assisted by the members of the Board of Trustees' independent staff and by independent legal counsel for the funds and the Independent Trustees.

At the Board of Trustees' June 2023 meeting, the Contract Committee met in executive session to discuss and consider its recommendations with respect to the continuance of the contracts. At that meeting, the Contract Committee also met in executive session with the other Independent Trustees to review a summary of the key financial, performance and other data that the Contract Committee considered in the course of its review. The Contract Committee recommended, and the Independent Trustees approved, the continuance of your fund's Current Management Contracts, effective July 1, 2023, and the approval of your fund's New Management Contracts and Interim Management Contracts, as discussed above.

The Independent Trustees' approvals were based on the following conclusions:

- That the fee schedule in effect for your fund represented reasonable compensation in light of the nature and quality of the services being provided to the fund, the fees paid by competitive funds, the costs incurred by Putnam Management in providing services to the fund and the application of certain reductions and waivers noted below; and
- That the fee schedule in effect for your fund represented an appropriate sharing between fund shareholders and Putnam Management of any economies of scale as may exist in the management of the fund at current asset levels.

These conclusions were based on a comprehensive consideration of all information provided to the Trustees and were not the result of any single factor. Some of the factors that figured particularly in the Trustees' deliberations and how the Trustees considered these factors are described below, although individual Trustees may have evaluated the information presented differently, giving different weights to various factors. It is also important to recognize that the management arrangements for your fund and the other Putnam mutual funds and closed-end funds are the result of many years of review and discussion between the Independent Trustees and Putnam Management, that some aspects of the arrangements may receive greater scrutiny in some years than others and that the Trustees' conclusions may be based, in part, on their consideration of fee arrangements in previous years. For example, with certain exceptions

primarily involving newer funds (including the exchange-traded funds) or repositioned funds, the current fee arrangements under the vast majority of the funds' management contracts were first implemented at the beginning of 2010 following extensive review by the Contract Committee and discussions with representatives of Putnam Management, as well as approval by shareholders. The Trustees also took into account their concurrent deliberations and conclusions, and the materials that they had reviewed, in connection with their approval on June 23, 2023 of the Interim Management Contracts and the New Management Contracts, which had been proposed in light of the Transaction (which would cause the fund's Current Management Contracts to terminate in accordance with applicable law or the terms of each contract).

Management fee schedules and total expenses

The Trustees reviewed the management fee schedules in effect for all funds, including fee levels and breakpoints. Under its management contract, your fund has the benefit of breakpoints in its management fee schedule that provide shareholders with reduced fee levels as assets under management in the Putnam family of funds increase. The Trustees also reviewed the total expenses of each Putnam fund, recognizing that in most cases management fees represented the major, but not the sole, determinant of total costs to fund shareholders. (Two mutual funds and each of the exchange-traded funds have implemented so-called "allin" or unitary management fees covering substantially all routine fund operating costs.)

In reviewing fees and expenses, the Trustees generally focus their attention on material changes in circumstances — for example, changes in assets under management, changes in a fund's investment strategy, changes in Putnam Management's operating costs or profitability, or changes in competitive practices in the fund industry — that suggest that consideration of fee changes might be warranted. The Trustees concluded that the circumstances did not indicate that changes to the management fee schedule for your fund would be appropriate at

As in the past, the Trustees also focused on the competitiveness of each fund's total expense ratio. The Trustees, Putnam Management and the funds' investor servicing agent, Putnam Investor Services, Inc. ("PSERV"), have implemented expense limitations that were in effect during your fund's fiscal year ending in 2022. These expense limitations were: (i) a contractual expense limitation applicable to specified mutual funds, including your fund, of 25 basis points on investor servicing fees and expenses and (ii) a contractual expense limitation applicable to specified mutual funds, including your fund, of 20 basis points on so-called "other expenses" (i.e., all expenses exclusive of management fees, distribution fees, investor servicing fees, investment-related expenses, interest, taxes, brokerage commissions, acquired fund fees and expenses and extraordinary expenses). These expense limitations attempt to maintain competitive expense levels for the funds. Most funds, including your fund, had sufficiently low expenses that these expense limitations were not operative during their fiscal years ending in 2022. Putnam Management and PSERV have agreed to maintain these expense limitations until at least April 30, 2025. Putnam Management and PSERV's commitment to these expense limitation arrangements, which were intended to support an effort to have the mutual fund expenses meet competitive standards, was an important factor in the Trustees' decision to approve your fund's New Management Contracts and Interim Management Contracts and the continuance of your fund's Current Management Contracts.

The Trustees reviewed comparative fee and expense information for a custom group of competitive funds selected by Broadridge Financial Solutions, Inc. ("Broadridge"). This comparative information included your fund's percentile ranking for effective management fees and total expenses (excluding any applicable 12b-1 fees), which provides a general indication of your fund's relative standing. In the custom peer group, your fund ranked in the second quintile in effective management fees (determined for your fund and the other funds in the custom peer group based on fund asset size and the applicable contractual management fee schedule) and in the fourth quintile in total expenses (excluding any applicable 12b-1 fees) as of December 31, 2022. The first quintile represents the least expensive funds and the fifth quintile the most expensive funds. The fee and expense data reported by Broadridge as of December 31, 2022 reflected the most recent fiscal year-end data available in Broadridge's database at that time.

In connection with their review of fund management fees and total expenses, the Trustees also reviewed the costs of the services provided and the profits realized by Putnam Management and its affiliates from their contractual relationships with the funds. This information included trends in revenues, expenses and profitability of Putnam Management and its affiliates relating to the investment management, investor servicing and distribution services provided to the funds, as applicable. In this regard, the Trustees also reviewed an analysis of the revenues, expenses and profitability of Putnam Management and its affiliates, allocated on a fund-by-fund basis, with respect to (as applicable) the funds' management, distribution and investor servicing contracts. For each fund, the analysis presented information about revenues, expenses and profitability in 2022 for each of the applicable agreements separately and for the agreements taken together on a combined basis. The Trustees concluded that, at current asset levels, the fee schedules in place for each of the funds, including the fee schedule for your fund, represented reasonable compensation for the services being provided and represented an appropriate sharing between fund shareholders and Putnam Management of any economies of scale as may exist in the management of the funds at that time.

The information examined by the Trustees in connection with their annual contract review for the funds included information regarding services provided and fees charged by Putnam Management and its affiliates to other clients, including collective investment trusts offered in the defined contribution and defined benefit retirement plan markets, subadvised mutual funds, private funds sponsored by affiliates of Putnam Management, model-only separately managed accounts and Putnam Management's manager-traded separately managed account programs. This information included, in cases where a product's investment strategy corresponds with a fund's strategy, comparisons of those fees with fees charged to the funds, as well as an assessment of the differences in the services provided to these clients as compared to the services provided to the funds. The Trustees observed that the differences in fee rates between these clients and the funds are by no means uniform when examined by individual asset sectors, suggesting that differences in the pricing of investment management services to these types of clients may reflect, among other things, historical competitive forces operating in separate marketplaces. The Trustees considered the fact that in many cases fee rates across different asset classes are higher on average for 1940 Actregistered funds than for other clients, and the Trustees also considered the differences between the services that Putnam Management provides to the funds and those that it provides to its other clients. The Trustees did

not rely on these comparisons to any significant extent in concluding that the management fees paid by your fund are reasonable.

Investment performance

The quality of the investment process provided by Putnam Management represented a major factor in the Trustees' evaluation of the quality of services provided by Putnam Management under your fund's management contract. The Trustees were assisted in their review of Putnam Management's investment process and performance by the work of the investment oversight committees of the Trustees and the full Board of Trustees, which meet on a regular basis with individual portfolio managers and with senior management of Putnam Management's Investment Division throughout the year. The Trustees concluded that Putnam Management generally provides a high-quality investment process — based on the experience and skills of the individuals assigned to the management of fund portfolios, the resources made available to them and in general Putnam Management's ability to attract and retain high-quality personnel — but also recognized that this does not guarantee favorable investment results for every fund in every time period.

The Trustees considered that, in the aggregate, peer-relative and benchmark-relative Putnam fund performance was generally encouraging in 2022 against a backdrop of volatile equity and fixed income markets, driven by factors such as Russia's invasion of Ukraine, increased tensions with China, disruptions in energy markets and broader supply chains, rising inflation and the significant tightening of monetary policy by the Board of Governors of the Federal Reserve in an effort to combat inflation. The Trustees further noted that, in the face of these numerous economic headwinds, corporate earnings and employment data had been generally robust throughout 2022. For the one-year period ended December 31, 2022, the Trustees noted that the Putnam funds, on an asset-weighted basis, ranked in the 41st percentile of their peers as determined by Lipper Inc. ("Lipper") and, on an asset-weighted-basis, outperformed their benchmarks by 1.3% gross of fees over the one-year period. The Committee also noted that the funds' aggregate performance over longer-term periods continued to be strong, with the funds, on an asset-weighted basis, ranking in the 34th, 27th and 22nd percentiles of their Lipper peers over the three-year, five-year and ten-year periods ended December 31, 2022, respectively. The Trustees further noted that the funds, in the aggregate, outperformed their benchmarks on a gross basis for each of the three-year, five-year and ten-year periods. The Trustees also considered the Morningstar Inc. ratings assigned to the funds and that 40 funds were rated four or five stars at the end of 2022, which represented an increase of 15 funds year-over-year. The Trustees also considered that seven funds were five-star rated at the end of 2022, which was a year-over-year decrease of two funds, and that 83% of the funds' aggregate assets were in four- or five-star rated funds at year end.

In addition to the performance of the individual Putnam funds, the Trustees considered, as they had in prior years, the performance of The Putnam Fund complex versus competitor fund complexes, as reported in the Barron's/Lipper Fund Families survey (the "Survey"). The Trustees noted that the Survey ranks mutual fund companies based on their performance across a variety of asset types, and that The Putnam Fund complex had performed exceptionally well in 2022. In this regard, the Trustees considered that the funds had ranked 9th out of 49 fund companies, 3rd out of 49 fund companies and 2nd out of 47 fund companies for the one-year, five-year and ten-year periods, respectively. The Trustees

also noted that The Putnam Fund complex had been the only fund family to rank in the top ten in all three time periods. They also noted, however, the disappointing investment performance of some Putnam funds for periods ended December 31, 2022 and considered information provided by Putnam Management regarding the factors contributing to the underperformance and, where relevant, actions being taken to improve the performance of these particular funds. The Trustees indicated their intention to continue to monitor the performance of those funds.

For purposes of the Trustees' evaluation of the Putnam funds' investment performance, the Trustees generally focus on a competitive industry ranking of each fund's total net return over a one-year, three-year and five-year period. For a number of Putnam funds with relatively unique investment mandates for which Putnam Management informed the Trustees that meaningful competitive performance rankings are not considered to be available, the Trustees evaluated performance based on their total gross and net returns and comparisons of those returns to the returns of selected investment benchmarks. In the case of your fund, the Trustees considered that its class IA share cumulative total return performance at net asset value was in the following quartiles of its Lipper peer group (Lipper VP (Underlying Funds) — High Yield Funds) for the one-year, three-year and five-year periods ended December 31, 2022 (the first guartile representing the best-performing funds and the fourth quartile the worst-performing funds):

| One-year period | Three-year period | Five-year period |
|-----------------|-------------------|------------------|
| 3rd | 3rd | 3rd |

Over the one-year, three-year and five-year periods ended December 31, 2022, there were 102, 101 and 101 funds, respectively, in your fund's Lipper peer group. (When considering performance information, shareholders should be mindful that past performance is not a guarantee of future results.)

The Trustees also considered Putnam Management's continued efforts to support fund performance through certain initiatives, including structuring compensation for portfolio managers to enhance accountability for fund performance, emphasizing accountability in the portfolio management process and affirming its commitment to a fundamental-driven approach to investing.

Brokerage and soft-dollar allocations; distribution and investor servicing

The Trustees considered various potential benefits that Putnam Management may receive in connection with the services it provides under the management contract with your fund. These include benefits related to brokerage allocation and the use of soft dollars, whereby a portion of the commissions paid by a fund for brokerage may be used to acquire research services that are expected to be useful to Putnam Management in managing the assets of the fund and of other clients. Subject to policies established by the Trustees, soft dollars generated by these means are used predominantly to acquire brokerage and research services (including third-party research and market data) that enhance Putnam Management's investment capabilities and supplement Putnam Management's internal research efforts. The Trustees indicated their continued intent to monitor regulatory and industry developments in this area with the assistance of their Brokerage Committee. In addition, with the assistance of their Brokerage Committee, the Trustees indicated their continued intent to monitor the allocation of the funds' brokerage in order to ensure that the principle of seeking best price and execution remains paramount in the portfolio trading process.

Putnam Management may also receive benefits from payments made to Putnam Management's affiliates by the mutual funds for distribution services and investor services. In conjunction with the review of your fund's management and sub-management contracts, the Trustees reviewed your fund's investor servicing agreement with PSERV and its distributor's contract and distribution plans with Putnam Retail Management Limited Partnership ("PRM"), both of which are affiliates of Putnam Management. The Trustees concluded that the fees payable by the mutual funds PSERV and PRM for such services were fair and reasonable in relation to the nature and quality of such services, the fees paid by competitive funds and the costs incurred by PSERV and PRM in providing such services. Furthermore, the Trustees were of the view that the investor services provided by PSERV were required for the operation of the mutual funds, and that they were of a quality at least equal to those provided by other providers.

Other important information

Proxy voting

Putnam is committed to managing our mutual funds in the best interests of our shareholders. The Putnam funds' proxy voting guidelines and procedures, as well as information regarding how your fund voted proxies relating to portfolio securities during the 12-month period ended June 30, 2022, are available in the Individual Investors section of putnam.com and on the Securities and Exchange Commission's (SEC) website at www.sec.gov. If you have questions about finding forms on the SEC's website, you may call the SEC at 1-800-SEC-0330. You may also obtain the Putnam funds' proxy voting guidelines and procedures at no charge by calling Putnam's Shareholder Services at 1-800-225-1581.

Fund portfolio holdings

The fund will file a complete schedule of its portfolio holdings with the SEC for the first and third quarters of each fiscal year on Form N-PORT within 60 days of the end of such fiscal quarter. Shareholders may obtain the fund's Form N-PORT from the SEC's website at www.sec.gov.

Liquidity risk management program

Putnam, as the administrator of the fund's liquidity risk management program (appointed by the Board of Trustees), presented the most recent annual report on the program to the Trustees in May 2023. The report covered the structure of the program, including the program documents and related policies and procedures adopted to comply with Rule 22e-4 under the Investment Company Act of 1940, and reviewed the operation of the program from January 2022 through December 2022. The report included a description of the annual liquidity assessment of the fund that Putnam performed in November 2022. The report noted that there were no material compliance exceptions identified under Rule 22e-4 during the period. The report included a review of the governance of the program and the methodology for classification of the fund's investments. Putnam concluded that the program has been operating effectively and adequately to ensure compliance with Rule 22e-4.

Fund information

Investment Manager

Putnam Investment Management, LLC 100 Federal Street Boston, MA 02110

Investment Sub-Advisor

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Marketing Services

Putnam Retail Management Limited Partnership 100 Federal Street Boston, MA 02110

Investor Servicing Agent

Putnam Investments Mailing address: P.O. Box 219697 Kansas City, MO 64121-9697 1-800-225-1581

Custodian

State Street Bank and Trust Company

Legal Counsel

Ropes & Gray LLP

Trustees

Kenneth R. Leibler, Chair Barbara M Baumann Vice Chair Liaguat Ahamed Katinka Domotorffy Catharine Bond Hill Jennifer Williams Murphy Marie Pillai George Putnam III Robert L. Reynolds Manoj P. Singh Mona K. Sutphen

The fund's Statement of Additional Information contains additional information about the fund's Trustees and is available without charge upon request by calling 1-800-225-1581.