

EATON VANCE SENIOR FLOATING RATE TRUST
Form N-CSR
December 29, 2010

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

Form N-CSR

CERTIFIED SHAREHOLDER REPORT OF REGISTERED
MANAGEMENT INVESTMENT COMPANIES

Investment Company Act File Number: 811- 21411

Eaton Vance Senior Floating-Rate Trust

(Exact Name of Registrant as Specified in Charter)

Two International Place, Boston, Massachusetts 02110

(Address of Principal Executive Offices)

Maureen A. Gemma

Two International Place, Boston, Massachusetts 02110

(Name and Address of Agent for Services)

(617) 482-8260

(Registrant's Telephone Number)

October 31

Date of Fiscal Year End

October 31, 2010

Date of Reporting Period

Item 1. Reports to Stockholders

IMPORTANT NOTICES

Privacy. The Eaton Vance organization is committed to ensuring your financial privacy. Each of the financial institutions identified below has in effect the following policy (Privacy Policy) with respect to nonpublic personal information about its customers:

Only such information received from you, through application forms or otherwise, and information about your Eaton Vance fund transactions will be collected. This may include information such as name, address, social security number, tax status, account balances and transactions.

None of such information about you (or former customers) will be disclosed to anyone, except as permitted by law (which includes disclosure to employees necessary to service your account). In the normal course of servicing a customer's account, Eaton Vance may share information with unaffiliated third parties that perform various required services such as transfer agents, custodians and broker/dealers.

Policies and procedures (including physical, electronic and procedural safeguards) are in place that are designed to protect the confidentiality of such information.

We reserve the right to change our Privacy Policy at any time upon proper notification to you. Customers may want to review our Privacy Policy periodically for changes by accessing the link on our homepage: www.eatonvance.com.

Our pledge of privacy applies to the following entities within the Eaton Vance organization: the Eaton Vance Family of Funds, Eaton Vance Management, Eaton Vance Investment Counsel, Boston Management and Research, and Eaton Vance Distributors, Inc. Our Privacy Policy applies only to those Eaton Vance customers who are individuals and who have a direct relationship with us. If a customer's account (i.e., fund shares) is held in the name of a third-party financial adviser/broker-dealer, it is likely that only such adviser's privacy policies apply to the customer. This notice supersedes all previously issued privacy disclosures. For more information about Eaton Vance's Privacy Policy, please call 1-800-262-1122.

Delivery of Shareholder Documents. The Securities and Exchange Commission (the SEC) permits funds to deliver only one copy of shareholder documents, including prospectuses, proxy statements and shareholder reports, to fund investors with multiple accounts at the same residential or post office box address. This practice is often called householding and it helps eliminate duplicate mailings to shareholders.

Eaton Vance, or your financial adviser, may household the mailing of your documents indefinitely unless you instruct Eaton Vance, or your financial adviser, otherwise. If you would prefer that your Eaton Vance documents not be househanded, please contact Eaton Vance at 1-800-262-1122, or contact your financial adviser. Your instructions that householding not apply to delivery of your Eaton Vance documents will be effective within 30 days of receipt by Eaton Vance or your financial adviser.

Portfolio Holdings. Each Eaton Vance Fund and its underlying Portfolio(s) (if applicable) will file a schedule of portfolio holdings on Form N-Q with the SEC for the first and third quarters of each fiscal year. The Form N-Q will be available on the Eaton Vance website at www.eatonvance.com, by calling Eaton Vance at 1-800-262-1122 or in the EDGAR database on the SEC's website at www.sec.gov. Form N-Q may also be reviewed and copied at the SEC's public reference room in Washington, D.C. (call 1-800-732-0330 for information on the operation of the public reference room).

Proxy Voting. From time to time, funds are required to vote proxies related to the securities held by the funds. The Eaton Vance Funds or their underlying Portfolios (if applicable) vote proxies according to a set of policies and procedures approved by the Funds' and Portfolios' Boards. You may obtain a description of these policies and procedures and information on how the Funds or Portfolios voted proxies relating to portfolio securities during the most recent 12 month period ended June 30, without charge, upon request, by calling 1-800-262-1122. This description is also available on the SEC's website at www.sec.gov.

Additional Notice to Shareholders. The Fund may redeem or purchase its outstanding auction preferred shares (APS) in order to maintain compliance with regulatory requirements, borrowing or rating agency requirements or for other purposes as it deems appropriate or necessary. The Fund may also purchase shares of its common stock in the open market when they trade at a discount to net asset value or at other times if the Fund determines such purchases are advisable. There can be no assurance that the Fund will take such action or that such purchases would reduce the discount.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

MANAGEMENT'S DISCUSSION OF FUND PERFORMANCE

Scott H. Page, CFA

Co-Portfolio Manager

Peter M. Campo, CFA

Co-Portfolio Manager

Craig P. Russ

Co-Portfolio Manager

Economic and Market Conditions

The bank loan market continued to recover from its 2008 lows for most of the 12-month period ending October 31, 2010. In spite of a small negative return during the April-June quarter, the market, as measured by the S&P/LSTA Leveraged Loan Index¹ (the Index), produced double-digit performance for the year. The market's recovery was driven by stronger demand and greater liquidity in the marketplace, along with improved corporate fundamentals.

The market's healthier tone is attributed to receding fears over deflation and a possible double-dip recession in the U.S. As a result, investors in search of yield have somewhat returned to taking on incremental credit risk, evidenced by improved inflows into high yield bond and bank loan mutual funds. These greater inflows have led to more robust demand in the secondary market, as well as increased refinancing activity, bond for loan take outs, and a general improvement in the overall tone of the market, all contributing to the lift in prices.

Bank loan issuer fundamentals, which have been improving for the past several quarters, continued this trend into the latter months of the fiscal year. Corporate operating earnings growth was up 12.1% in the second calendar quarter of 2010 for public filers in the Index the fourth consecutive quarter of such increases. Ratings downgrades and new defaults have also diminished to more modest levels, providing additional evidence of fundamental improvements. Our expectation is for continued moderate declines in default rates as older defaults fall off of the rolling 12-month figures and are replaced by fewer new defaults.

Management Discussion

The Trust is a closed-end fund and trades on the New York Stock Exchange (NYSE) under the symbol EFR. The Trust's investment objective is to provide a high level of current income. As a secondary objective, it may also seek preservation of capital to the extent consistent with its primary goal of high current income. Under normal market conditions, the Trust invests at least 80% of its total assets in senior, secured floating-rate loans (senior loans). In managing the Trust, the investment adviser seeks to invest in a portfolio of senior loans that it believes will be less volatile over time than the general loan market. The Trust may also invest in second lien loans and high-yield bonds, and, as discussed below, employs leverage to acquire additional income-producing securities, which may increase risk.

As of October 31, 2010, the Trust's investments included senior loans to 371 borrowers spanning 37 industries, with an average loan representing 0.24% of total investments, and no industry constituting more

Total Return Performance 10/31/09 - 10/31/10

| NYSE Symbol | EFR |
|--|---------------------|
| At Net Asset Value (NAV) ² | 17.93% |
| At Market Price ² | 29.96% |
| S&P/LSTA Leveraged Loan Index ¹ | 11.91% |
| Premium/(Discount) to NAV (10/31/10) | 4.41% |
| Total Distributions per common share | \$1.108 |
| Distribution Rate ³ | <i>At NAV</i> 7.05% |
| | 6.75% |

*At Market
Price*

See page 3 for more performance information.

- ¹ It is not possible to invest directly in an Index. The Index's total return does not reflect commissions or expenses that would have been incurred if an investor individually purchased or sold the securities represented in the Index. Unlike the Trust, the Index's total return does not reflect the effect of leverage.
- ² Performance results reflect the effects of leverage.
- ³ The Distribution Rate is based on the Trust's last regular distribution per share in the period (annualized) divided by the Trust's NAV or market price at the end of the period. The Trust's distributions may be comprised of ordinary income, net realized capital gains and return of capital. Absent an expense waiver by the investment adviser, the returns would be lower.

Past performance is no guarantee of future results. Returns are historical and are calculated by determining the percentage change in net asset value or market price (as applicable) with all distributions reinvested. The Trust's performance at market price will differ from its results at NAV. Although market price performance generally reflects investment results over time, during shorter periods, returns at market price can also be affected by factors such as changing perceptions about the Trust, market conditions, fluctuations in supply and demand for the Trust's shares, or changes in Trust distributions. Investment return and principal value will fluctuate so that shares, when sold, may be worth more or less than their original cost. Performance is for the stated time period only; due to market volatility, the Trust's current performance may be lower or higher than the quoted return. For performance as of the most recent month end, please refer to www.eatonvance.com.

Trust shares are not insured by the FDIC and are not deposits or other obligations of, or guaranteed by, any depository institution. Shares are subject to investment risks, including possible loss of principal invested.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

MANAGEMENT'S DISCUSSION OF FUND PERFORMANCE

than 11.5% of total investments. Health care, business equipment and services, and cable and satellite television were among the top industry weightings.

Management's use of leverage was a significant factor in the Trust's outperformance of the Index, as its loans acquired with borrowings were bolstered by generally strong conditions in the credit markets during the year. As of October 31, 2010, the Trust employed leverage of 35.8% of total assets 16.7% auction preferred shares (APS) and 19.1% borrowings. Use of leverage creates an opportunity for added return, but at the same time creates special risks (including the likelihood of greater volatility of net asset value and market price of common shares).

The Trust continued to maintain smaller allocations to large, lower-quality loans notably, some significant issues that came to market in 2007 than did the market, an underweighting that we believe may lead to better long-term performance. During the period, however, this underweighting detracted from performance. The price of these issues rallied more than the overall market as investors sought higher discount opportunities. The Trust's lower allocation to B-rated loans, which rallied the most after the May/ June volatility, slightly detracted from relative performance during the summer months, as did an underweight to CCC-rated loans earlier in the year. In addition, the Trust's investments in European loans contributed positively to its performance during the period.

We believe the credit fundamentals of the Trust's holdings may continue to exhibit improvements consistent with a stabilizing U.S. economy. Loan defaults in the Trust range between 1% and 2% of total assets, and we believe that they will likely stabilize around current levels over the next few quarters, an opinion shared by many in the market, including the major rating agencies.

We continue to believe that the Trust is well positioned for the current market environment. The Trust invests broadly across the floating-rate loan market, providing shareholders with diversified exposure to the asset class. The cornerstones of the Trust's investment approach have always been and continue to be bottom-up credit research and dedication to diversification. This approach helps the Trust seek lower volatility relative to the overall loan market, while helping to contain risk in difficult credit environments.

¹ APS percentage represents the liquidation value of the Trust's APS outstanding at 10/31/10 as a percentage of the Trust's net assets applicable to common shares plus APS and borrowings outstanding. In the event of a rise in long-term interest rates, the value of the Trust's investment portfolio could decline, which would reduce the asset coverage for its APS and borrowings.

The views expressed throughout this report are those of the portfolio managers and are current only through the end of the period of the report as stated on the cover. These views are subject to change at any time based upon market or other conditions, and the investment adviser disclaims any responsibility to update such views. These views may not be relied on as investment advice and, because investment decisions for a fund are based on many factors, may not be relied on as an indication of trading intent on behalf of any Eaton Vance fund. Portfolio information provided in the report may not be representative of the Trust's current or future investments and may change due to active management.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FUND PERFORMANCE

Trust Performance¹

| NYSE Symbol | EFR |
|--|------------|
| Average Annual Total Returns (by market price, NYSE) | |
| One Year | 29.96% |
| Five Years | 6.83 |
| Life of Trust (11/28/03) | 5.03 |
| Average Annual Total Returns (at net asset value) | |
| One Year | 17.93% |
| Five Years | 4.12 |
| Life of Trust (11/28/03) | 4.38 |

¹ Performance results reflect the effects of leverage resulting from the Trust's issuance of APS. Absent an expense waiver by the investment adviser, the returns would be lower.

Portfolio Composition

Top 10 Holdings²

By total investments

| | |
|---------------------------------------|------|
| Community Health Systems, Inc. | 1.3% |
| UPC Broadband Holding B.V. | 1.2% |
| Georgia-Pacific Corp. | 1.2% |
| SunGard Data Systems, Inc. | 1.1% |
| HCA, Inc. | 1.1% |
| Aramark Corp. | 1.1% |
| Charter Communications Operating, LLC | 1.1% |
| Rite Aid Corp. | 1.1% |
| Nielsen Finance, LLC | 1.0% |
| INEOS Group | 0.9% |

² Top 10 Holdings represented 11.1% of the Trust's total investments as of 10/31/10.

Top Five Industries³

By total investments

| | |
|---------------------------------|-------|
| Health Care | 11.5% |
| Business Equipment and Services | 7.6 |
| Cable and Satellite Television | 7.2 |
| Leisure Goods/Activities/Movies | 5.2 |
| Chemicals and Plastics | 4.5 |

³ Industries are shown as a percentage of the Trust's total investments as of 10/31/10.

Credit Quality Ratings for

Total Loan Investments⁴

By total loan investments

| | |
|-----|------|
| Baa | 2.3% |
|-----|------|

| | |
|------------------------|------|
| Ba | 49.5 |
| B | 34.3 |
| Ca | 0.2 |
| Caa | 3.3 |
| Defaulted | 0.4 |
| Non-Rated ⁵ | 10.0 |

⁴ Credit Quality ratings are those provided by Moody's Investor Services, Inc., a nationally recognized bond rating service. Reflects the Trust's total loan investments as of 10/31/10. Credit ratings are based largely on the rating agency's investment analysis at the time of rating and the rating assigned to any particular security is not necessarily a reflection of the issuer's current financial condition. The rating assigned to a security by a rating agency does not necessarily reflect its assessment of the volatility of a security's market value or of the liquidity of an investment in the security. If securities are rated differently by the rating agencies, the higher rating is applied.

⁵ Certain loans in which the Trust invests are not rated by a rating agency. In management's opinion, such securities are comparable to securities rated by a rating agency in the categories listed above.

Past performance is no guarantee of future results. Returns are historical and are calculated by determining the percentage change in net asset value or market price (as applicable) with all distributions reinvested. The Trust's performance at market price will differ from its results at NAV. Although market price performance generally reflects investment results over time, during shorter periods, returns at market price can also be affected by factors such as changing perceptions about the Trust, market conditions, fluctuations in supply and demand for the Trust's shares, or changes in Trust distributions. Investment return and principal value will fluctuate so that shares, when sold, may be worth more or less than their original cost. Performance is for the stated time period only; due to market volatility, the Trust's current performance may be lower or higher than the quoted return. For performance as of the most recent month end, please refer to www.eatonvance.com.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS

Senior Floating-Rate Interests 140.7%**Principal
Amount***

| (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|--------------|
| Aerospace and Defense 3.2% | | |
| Aveos Fleet Performance, Inc. | | |
| 31 | Revolving Loan, 8.18%, Maturing March 12, 2013 ⁽²⁾ | \$ 30,932 |
| 47 | Term Loan, 11.25%, Maturing March 12, 2013 | 46,516 |
| 125 | Term Loan - Second Lien, 10.75%, Maturing March 12, 2015 ⁽³⁾ | 117,052 |
| Booz Allen Hamilton, Inc. | | |
| 496 | Term Loan, 6.00%, Maturing July 31, 2015 | 498,855 |
| DAE Aviation Holdings, Inc. | | |
| 403 | Term Loan, 4.04%, Maturing July 31, 2014 | 388,174 |
| 416 | Term Loan, 4.04%, Maturing July 31, 2014 | 400,871 |
| Delos Aircraft, Inc. | | |
| 625 | Term Loan, 7.00%, Maturing March 17, 2016 | 640,625 |
| Doncasters (Dunde HoldCo 4 Ltd.) | | |
| 394 | Term Loan, 4.26%, Maturing July 13, 2015 | 354,798 |
| 394 | Term Loan, 4.76%, Maturing July 13, 2015 | 354,798 |
| GBP | 500 Term Loan - Second Lien, 6.57%, Maturing January 13, 2016 | 621,913 |
| DynCorp International, LLC | | |
| 900 | Term Loan, 6.25%, Maturing July 5, 2016 | 906,604 |
| Evergreen International Aviation | | |
| 910 | Term Loan, 10.50%, Maturing October 31, 2011 ⁽³⁾ | 898,699 |
| Hawker Beechcraft Acquisition | | |
| 4,287 | | 3,601,570 |

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| | | |
|--|---|----------------------|
| | Term Loan, 2.26%, Maturing March 26, 2014 | |
| 256 | Term Loan, 2.29%, Maturing March 26, 2014 | 215,319 |
| IAP Worldwide Services, Inc. | | |
| 829 | Term Loan, 8.25%, Maturing December 30, 2012 ⁽³⁾ | 814,692 |
| International Lease Finance Co. | | |
| 850 | Term Loan, 6.75%, Maturing March 17, 2015 | 872,237 |
| Spirit Aerosystems, Inc. | | |
| 1,565 | Term Loan, 3.54%, Maturing September 30, 2016 | 1,563,242 |
| TransDigm, Inc. | | |
| 1,625 | Term Loan, 2.27%, Maturing June 23, 2013 | 1,609,156 |
| Triumph Group, Inc. | | |
| 574 | Term Loan, 4.50%, Maturing June 16, 2016 | 578,223 |
| Wesco Aircraft Hardware Corp. | | |
| 1,014 | Term Loan, 2.51%, Maturing September 30, 2013 | 1,007,165 |
| Wyle Laboratories, Inc. | | |
| 873 | Term Loan, 7.75%, Maturing March 25, 2016 | 876,084 |
| | | \$ 16,397,525 |

Air Transport 0.1%

Delta Air Lines, Inc.

| | | |
|-----|---|-------------------|
| 742 | Term Loan, 2.28%, Maturing April 30, 2012 | \$ 729,913 |
| | | \$ 729,913 |

Automotive 5.8%

Adesa, Inc.

| | | |
|-------|---|--------------|
| 2,071 | Term Loan, 3.01%, Maturing October 18, 2013 | \$ 2,024,594 |
|-------|---|--------------|

Allison Transmission, Inc.

| | | |
|-------|---|-----------|
| 3,822 | Term Loan, 3.03%, Maturing August 7, 2014 | 3,675,565 |
|-------|---|-----------|

| | | |
|---|--|----------------------|
| Autotrader.com, Inc. | | |
| 1,100 | Term Loan, 6.00%, Maturing June 14, 2016 | 1,104,813 |
| Dayco Products, LLC | | |
| 414 | Term Loan, 10.50%, Maturing May 13, 2014 | 413,263 |
| 65 | Term Loan, 12.50%, Maturing November 13, 2014 ⁽³⁾ | 63,904 |
| Federal-Mogul Corp. | | |
| 2,457 | Term Loan, 2.20%, Maturing December 29, 2014 | 2,187,333 |
| 3,088 | Term Loan, 2.20%, Maturing December 28, 2015 | 2,748,708 |
| Ford Motor Co. | | |
| 3,893 | Term Loan, 3.04%, Maturing December 16, 2013 | 3,859,894 |
| Goodyear Tire & Rubber Co. | | |
| 5,400 | Term Loan - Second Lien, 2.21%, Maturing April 30, 2014 | 5,208,748 |
| HHI Holdings, LLC | | |
| 975 | Term Loan, 9.75%, Maturing March 30, 2015 | 989,625 |
| Keystone Automotive Operations, Inc. | | |
| 1,310 | Term Loan, 3.79%, Maturing January 12, 2012 | 1,113,362 |
| LKQ Corp. U.S. | | |
| 885 | Term Loan, 2.51%, Maturing October 12, 2013 | 882,805 |
| Metaldyne Co., LLC | | |
| 925 | Term Loan, 7.75%, Maturing October 28, 2016 | 933,094 |
| TriMas Corp. | | |
| 284 | Term Loan, 6.00%, Maturing August 2, 2011 | 284,817 |
| 2,747 | Term Loan, 6.00%, Maturing December 15, 2015 | 2,754,314 |
| United Components, Inc. | | |
| 1,025 | Term Loan, 6.25%, Maturing March 23, 2017 | 1,035,763 |
| | | \$ 29,280,602 |

Building and Development 2.0%

Beacon Sales Acquisition, Inc.

| | | |
|-------|---|--------------|
| 1,104 | Term Loan, 2.28%, Maturing September 30, 2013 | \$ 1,051,972 |
|-------|---|--------------|

Brickman Group Holdings, Inc.

1,175 Term Loan, 7.25%, Maturing
October 14, 2016

1,188,954

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|----------------------|
| Building and Development (continued) | | |
| Forestar USA Real Estate Group, Inc. | | |
| 244 | Revolving Loan, 1.18%, Maturing December 1, 2010 ⁽²⁾ | \$ 229,723 |
| 2,240 | Term Loan, 6.50%, Maturing December 1, 2010 | 2,195,317 |
| Metroflag BP, LLC | | |
| 500 | Term Loan - Second Lien, 0.00%, Maturing January 6, 2009 ⁽⁴⁾⁽⁵⁾ | 0 |
| NCI Building Systems, Inc. | | |
| 257 | Term Loan, 8.00%, Maturing April 18, 2014 | 247,876 |
| November 2005 Land Investors, LLC | | |
| 305 | Term Loan, 0.00%, Maturing March 31, 2011 ⁽⁶⁾ | 64,017 |
| Panolam Industries Holdings, Inc. | | |
| 1,689 | Term Loan, 8.25%, Maturing December 31, 2013 | 1,559,377 |
| RE/MAX International, Inc. | | |
| 1,891 | Term Loan, 5.50%, Maturing April 15, 2016 | 1,896,408 |
| Realogy Corp. | | |
| 160 | Term Loan, 3.26%, Maturing October 10, 2013 | 145,952 |
| 668 | Term Loan, 3.26%, Maturing October 10, 2013 | 608,884 |
| South Edge, LLC | | |
| 1,588 | Term Loan, 0.00%, Maturing October 31, 2009 ⁽⁴⁾ | 754,063 |
| WCI Communities, Inc. | | |
| 251 | Term Loan, 11.00%, Maturing September 3, 2014 | 249,896 |
| | | \$ 10,192,439 |

| | | |
|--|---|--------------|
| Business Equipment and Services | 11.5% | |
| Activant Solutions, Inc. | | |
| 1,077 | Term Loan, 2.31%, Maturing May 2, 2013 | \$ 1,040,750 |
| Advantage Sales & Marketing, Inc. | | |
| 2,189 | Term Loan, 5.00%, Maturing May 5, 2016 | 2,188,453 |
| Affinion Group, Inc. | | |
| 3,706 | Term Loan, 5.00%, Maturing October 10, 2016 | 3,664,678 |
| Allied Barton Security Services | | |
| 971 | Term Loan, 7.75%, Maturing February 18, 2015 | 975,895 |
| Dealer Computer Services, Inc. | | |
| 1,672 | Term Loan, 5.25%, Maturing April 21, 2017 | 1,674,032 |
| Education Management, LLC | | |
| 4,581 | Term Loan, 2.06%, Maturing June 3, 2013 | 4,267,238 |
| Fifth Third Processing Solution | | |
| 925 | Term Loan, Maturing November 1, 2016 ⁽⁷⁾ | 915,750 |
| First American Corp. | | |
| 923 | Term Loan, 4.75%, Maturing April 12, 2016 | 929,031 |
| Infogroup, Inc. | | |
| 723 | Term Loan, 6.25%, Maturing July 1, 2016 | 728,009 |
| iPayment, Inc. | | |
| 2,252 | Term Loan, 2.28%, Maturing May 10, 2013 | 2,133,590 |
| Kronos, Inc. | | |
| 1,012 | Term Loan, 2.04%, Maturing June 11, 2014 | 991,819 |
| Language Line, Inc. | | |
| 2,010 | Term Loan, 5.50%, Maturing November 4, 2015 | 1,993,483 |
| Mitchell International, Inc. | | |
| 1,000 | Term Loan - Second Lien, 5.56%, Maturing March 30, 2015 | 876,250 |
| NE Customer Service | | |
| 1,699 | Term Loan, 6.00%, Maturing March 23, 2016 | 1,688,842 |
| Protection One Alarm Monitor, Inc. | | |
| 1,746 | Term Loan, 6.00%, Maturing May 16, 2016 | 1,749,989 |
| Quantum Corp. | | |

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| | | | |
|--------------------------------------|-------|---|----------------------|
| | 175 | Term Loan, 3.77%, Maturing July 14, 2014 | 166,233 |
| Quintiles Transnational Corp. | | | |
| | 984 | Term Loan, 2.29%, Maturing March 29, 2013 | 974,652 |
| | 1,700 | Term Loan - Second Lien, 4.29%, Maturing March 31, 2014 | 1,687,250 |
| Sabre, Inc. | | | |
| | 6,002 | Term Loan, 2.27%, Maturing September 30, 2014 | 5,713,623 |
| Safenet, Inc. | | | |
| | 1,985 | Term Loan, 2.76%, Maturing April 12, 2014 | 1,906,471 |
| Serena Software, Inc. | | | |
| | 474 | Term Loan, 2.29%, Maturing March 10, 2013 | 462,150 |
| Sitel (Client Logic) | | | |
| | 1,567 | Term Loan, 5.79%, Maturing January 30, 2014 | 1,435,490 |
| Solera Holdings, LLC | | | |
| EUR | 729 | Term Loan, 2.69%, Maturing May 16, 2014 | 1,001,782 |
| SunGard Data Systems, Inc. | | | |
| | 2,215 | Term Loan, 2.01%, Maturing February 28, 2014 | 2,158,390 |
| | 6,791 | Term Loan, 4.03%, Maturing February 26, 2016 | 6,722,210 |
| Trans Union, LLC | | | |
| | 1,920 | Term Loan, 6.75%, Maturing June 15, 2017 | 1,956,792 |
| Travelport, LLC | | | |
| | 437 | Term Loan, 4.79%, Maturing August 21, 2015 | 432,180 |
| | 3,178 | Term Loan, 4.96%, Maturing August 21, 2015 | 3,142,827 |
| EUR | 1,054 | Term Loan, 5.33%, Maturing August 21, 2015 | 1,445,754 |
| West Corp. | | | |
| | 283 | Term Loan, 2.63%, Maturing October 24, 2013 | 277,687 |
| | 694 | Term Loan, 4.51%, Maturing July 15, 2016 | 692,697 |
| | 1,971 | Term Loan, 4.51%, Maturing July 15, 2016 | 1,963,883 |
| | | | \$ 57,957,880 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|--|--------------|
| | Cable and Satellite Television 10.9% | |
| | Atlantic Broadband Finance, LLC | |
| 95 | Term Loan, 2.54%, Maturing September 1, 2011 | \$ 94,205 |
| 2,546 | Term Loan, 6.75%, Maturing May 31, 2013 | 2,560,802 |
| | Bragg Communications, Inc. | |
| 2,086 | Term Loan, 2.80%, Maturing August 31, 2014 | 2,046,397 |
| | Bresnan Broadband Holdings, LLC | |
| 493 | Term Loan, 2.26%, Maturing June 30, 2013 | 490,422 |
| | Casema NV | |
| EUR 1,000 | Term Loan - Second Lien, 5.60%, Maturing March 14, 2016 | 1,388,321 |
| | Cequel Communications, LLC | |
| 2,157 | Term Loan, 2.26%, Maturing November 5, 2013 | 2,131,782 |
| | Charter Communications Operating, LLC | |
| 8,683 | Term Loan, 2.26%, Maturing March 6, 2014 | 8,534,097 |
| | CSC Holdings, Inc. | |
| 2,893 | Term Loan, 2.01%, Maturing March 29, 2016 | 2,841,684 |
| | CW Media Holdings, Inc. | |
| 545 | Term Loan, 3.26%, Maturing February 16, 2015 | 544,467 |
| | Foxco Acquisition Sub., LLC | |
| 563 | Term Loan, 7.50%, Maturing July 14, 2015 | 558,527 |
| | Insight Midwest Holdings, LLC | |
| 3,304 | Term Loan, 2.02%, Maturing April 7, 2014 | 3,197,655 |
| | MCC Iowa, LLC | |
| 5,674 | Term Loan, 2.00%, Maturing January 31, 2015 | 5,433,210 |

Mediacom Broadband, LLC

| | | |
|-------|--|-----------|
| 1,471 | Term Loan, 4.50%, Maturing October 23, 2017 | 1,459,052 |
|-------|--|-----------|

Mediacom Illinois, LLC

| | | |
|-------|--|-----------|
| 3,655 | Term Loan, 2.00%, Maturing January 31, 2015 | 3,469,971 |
|-------|--|-----------|

| | | |
|-----|--|---------|
| 990 | Term Loan, 5.50%, Maturing March 31, 2017 | 983,194 |
|-----|--|---------|

Mediacom, LLC

| | | |
|-----|--|---------|
| 823 | Term Loan, 4.50%, Maturing October 23, 2017 | 810,593 |
|-----|--|---------|

ProSiebenSat.1 Media AG

| | | |
|--------|--|---------|
| EUR 93 | Term Loan, 2.39%, Maturing July 2, 2014 | 117,837 |
|--------|--|---------|

| | | |
|---------|--|-----------|
| EUR 904 | Term Loan, 2.39%, Maturing July 2, 2014 | 1,151,077 |
|---------|--|-----------|

| | | |
|---------|---|---------|
| EUR 410 | Term Loan, 3.52%, Maturing March 6, 2015 | 458,466 |
|---------|---|---------|

| | | |
|-----------|---|-----------|
| EUR 2,187 | Term Loan, 2.77%, Maturing June 26, 2015 | 2,803,922 |
|-----------|---|-----------|

| | | |
|--------|--|---------|
| EUR 97 | Term Loan, 2.77%, Maturing July 3, 2015 | 124,613 |
|--------|--|---------|

| | | |
|---------|---|---------|
| EUR 410 | Term Loan, 3.77%, Maturing March 4, 2016 | 458,467 |
|---------|---|---------|

| | | |
|---------|--|---------|
| EUR 378 | Term Loan, 8.14%, Maturing March 6, 2017 ⁽³⁾ | 377,332 |
|---------|--|---------|

| | | |
|---------|---|---------|
| EUR 520 | Term Loan - Second Lien, 4.89%, Maturing September 2, 2016 | 543,786 |
|---------|---|---------|

UPC Broadband Holding B.V.

| | | |
|-------|---|-----------|
| 1,686 | Term Loan, 4.25%, Maturing December 30, 2016 | 1,650,015 |
|-------|---|-----------|

| | | |
|-----------|---|-----------|
| EUR 2,353 | Term Loan, 4.37%, Maturing December 31, 2016 | 3,104,310 |
|-----------|---|-----------|

| | | |
|-------|---|-----------|
| 1,264 | Term Loan, 4.25%, Maturing December 29, 2017 | 1,232,163 |
|-------|---|-----------|

| | | |
|-----------|---|-----------|
| EUR 2,697 | Term Loan, 4.62%, Maturing December 31, 2017 | 3,565,772 |
|-----------|---|-----------|

Virgin Media Investment Holding

| | | |
|-----------|---|-----------|
| GBP 1,000 | Term Loan, 4.78%, Maturing December 31, 2015 | 1,597,510 |
|-----------|---|-----------|

YPSO Holding SA

| | | |
|---------|--|---------|
| EUR 252 | Term Loan, 4.59%, Maturing June 16, 2014 ⁽³⁾ | 283,473 |
|---------|--|---------|

| | | |
|---------|--|---------|
| EUR 211 | Term Loan, 4.60%, Maturing June 16, 2014 ⁽³⁾ | 237,618 |
|---------|--|---------|

| | | |
|---------|--|---------|
| EUR 547 | Term Loan, 4.60%, Maturing June 16, 2014 ⁽³⁾ | 615,721 |
|---------|--|---------|

\$ 54,866,461

Chemicals and Plastics 7.0%

Arizona Chemical, Inc.

| | | |
|-----|---|------------|
| 500 | Term Loan - Second Lien, 5.80%, Maturing February 28, 2014 | \$ 499,375 |
|-----|---|------------|

Brenntag Holding GmbH and Co. KG

| | | |
|-------|--|-----------|
| 1,493 | Term Loan, 4.02%, Maturing January 20, 2014 | 1,504,500 |
|-------|--|-----------|

| | | |
|-----|--|---------|
| 220 | Term Loan, 4.03%, Maturing January 20, 2014 | 221,765 |
|-----|--|---------|

| | | |
|-------|---|-----------|
| 1,000 | Term Loan - Second Lien, 6.45%, Maturing July 17, 2015 | 1,007,500 |
|-------|---|-----------|

Celanese Holdings, LLC

| | | |
|-------|--|-----------|
| 1,481 | Term Loan, 3.29%, Maturing October 31, 2016 | 1,489,626 |
|-------|--|-----------|

Hexion Specialty Chemicals, Inc.

| | | |
|-----|---|---------|
| 484 | Term Loan, 4.06%, Maturing May 5, 2015 | 470,447 |
|-----|---|---------|

| | | |
|-----|---|---------|
| 768 | Term Loan, 4.06%, Maturing May 5, 2015 | 751,049 |
|-----|---|---------|

| | | |
|-------|---|-----------|
| 1,726 | Term Loan, 4.06%, Maturing May 5, 2015 | 1,687,254 |
|-------|---|-----------|

Huntsman International, LLC

| | | |
|-------|--|-----------|
| 2,136 | Term Loan, 1.78%, Maturing April 21, 2014 | 2,088,430 |
|-------|--|-----------|

| | | |
|-----|---|---------|
| 855 | Term Loan, 2.52%, Maturing June 30, 2016 | 839,083 |
|-----|---|---------|

INEOS Group

| | | |
|-------|---|-----------|
| 2,766 | Term Loan, 7.50%, Maturing December 16, 2013 | 2,832,668 |
|-------|---|-----------|

| | | |
|-------|---|-----------|
| 2,672 | Term Loan, 8.00%, Maturing December 16, 2014 | 2,736,340 |
|-------|---|-----------|

| | | | |
|-----|-------|---|-----------|
| EUR | 1,250 | Term Loan, 9.00%, Maturing December 16, 2015 | 1,748,014 |
|-----|-------|---|-----------|

ISP Chemco, Inc.

| | | |
|-------|--|-----------|
| 1,541 | Term Loan, 1.81%, Maturing June 4, 2014 | 1,507,469 |
|-------|--|-----------|

Kraton Polymers, LLC

| | | |
|-------|--|-----------|
| 1,871 | Term Loan, 2.31%, Maturing May 13, 2013 | 1,833,372 |
|-------|--|-----------|

Lyondell Chemical Co.

| | | |
|-----|---|---------|
| 673 | Term Loan, 5.50%, Maturing April 8, 2016 | 679,836 |
|-----|---|---------|

MacDermid, Inc.

| | | |
|-----|--|---------|
| 496 | Term Loan, 2.26%, Maturing April 12, 2014 | 474,065 |
|-----|--|---------|

| | | | |
|-----|-----|--|---------|
| EUR | 687 | Term Loan, 3.05%, Maturing April 11, 2014 | 892,029 |
|-----|-----|--|---------|

Millenium Inorganic Chemicals

| | | |
|-------|--|-----------|
| 1,309 | Term Loan, 2.54%, Maturing May 15, 2014 | 1,257,648 |
|-------|--|-----------|

Momentive Performance Material

| | | |
|-------|--|-----------|
| 1,660 | Term Loan, 2.56%, Maturing December 4, 2013 | 1,621,342 |
|-------|--|-----------|

Nalco Co.

| | | |
|-------|---|-----------|
| 1,400 | Term Loan, 4.50%, Maturing October 5, 2017 | 1,417,938 |
|-------|---|-----------|

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT'D

| Principal Amount* | Borrower/Tranche Description | Value |
|---|--|----------------------|
| (000 s omitted) | | |
| Chemicals and Plastics (continued) | | |
| Rockwood Specialties Group, Inc. | | |
| 2,675 | Term Loan, 6.00%, Maturing May 15, 2014 | \$ 2,681,635 |
| Schoeller Arca Systems Holding | | |
| EUR 145 | Term Loan, 5.24%, Maturing November 16, 2015 | 136,780 |
| EUR 412 | Term Loan, 5.24%, Maturing November 16, 2015 | 389,984 |
| EUR 443 | Term Loan, 5.24%, Maturing November 16, 2015 | 419,661 |
| Solutia, Inc. | | |
| 2,551 | Term Loan, 4.75%, Maturing March 17, 2017 | 2,572,943 |
| Styron S.A.R.L. | | |
| 1,555 | Term Loan, 7.50%, Maturing June 17, 2016 | 1,583,989 |
| | | \$ 35,344,742 |
| Clothing / Textiles 0.4% | | |
| Hanesbrands, Inc. | | |
| 1,036 | Term Loan, 5.25%, Maturing December 10, 2015 | \$ 1,049,924 |
| Phillips Van Heusen Corp. | | |
| 1,041 | Term Loan, 4.75%, Maturing May 6, 2016 | 1,051,590 |
| | | \$ 2,101,514 |

Conglomerates 3.6%

Gentek

| | | |
|-----|--|------------|
| 600 | Term Loan, 6.75%, Maturing October 6, 2015 | \$ 606,750 |
|-----|--|------------|

Goodman Global Holdings, Inc.

| | | |
|-------|---|-----------|
| 1,800 | Term Loan, Maturing October 28, 2016 ⁽⁷⁾ | 1,826,775 |
|-------|---|-----------|

Jarden Corp.

| | | |
|-------|---|-----------|
| 1,657 | Term Loan, 3.54%, Maturing January 26, 2015 | 1,660,352 |
|-------|---|-----------|

Manitowoc Company, Inc. (The)

| | | |
|-------|---|-----------|
| 1,366 | Term Loan, 8.00%, Maturing November 6, 2014 | 1,371,616 |
|-------|---|-----------|

Polymer Group, Inc.

| | | |
|-------|--|-----------|
| 1,909 | Term Loan, 7.00%, Maturing November 24, 2014 | 1,911,807 |
|-------|--|-----------|

RBS Global, Inc.

| | | |
|-----|--|---------|
| 776 | Term Loan, 2.56%, Maturing July 19, 2013 | 750,222 |
|-----|--|---------|

| | | |
|-------|--|-----------|
| 3,785 | Term Loan, 2.81%, Maturing July 19, 2013 | 3,685,484 |
|-------|--|-----------|

RGIS Holdings, LLC

| | | |
|-------|---|-----------|
| 2,547 | Term Loan, 2.78%, Maturing April 30, 2014 | 2,355,988 |
|-------|---|-----------|

| | | |
|-----|---|---------|
| 127 | Term Loan, 2.79%, Maturing April 30, 2014 | 117,799 |
|-----|---|---------|

Service Master Co.

| | | |
|-----|--|---------|
| 136 | Term Loan, 2.76%, Maturing July 24, 2014 | 129,201 |
|-----|--|---------|

| | | |
|-------|--|-----------|
| 1,364 | Term Loan, 2.76%, Maturing July 24, 2014 | 1,297,394 |
|-------|--|-----------|

US Investigations Services, Inc.

| | | |
|-----|--|---------|
| 987 | Term Loan, 3.29%, Maturing February 21, 2015 | 924,308 |
|-----|--|---------|

| | | |
|-----|--|---------|
| 823 | Term Loan, 7.75%, Maturing February 21, 2015 | 827,052 |
|-----|--|---------|

Vertrue, Inc.

| | | |
|-----|--|---------|
| 804 | Term Loan, 3.29%, Maturing August 16, 2014 | 723,993 |
|-----|--|---------|

\$ 18,188,741

Containers and Glass Products 4.0%

Berry Plastics Corp.

| | | |
|-------|--|--------------|
| 1,969 | Term Loan, 2.38%, Maturing April 3, 2015 | \$ 1,859,705 |
|-------|--|--------------|

BWAY Corp.

| | | |
|-----|--|---------|
| 798 | Term Loan, 5.52%, Maturing June 16, 2017 | 801,491 |
| 75 | Term Loan, 5.56%, Maturing June 16, 2017 | 75,140 |

Crown Americas, Inc.

| | | |
|-----|--|---------|
| 258 | Term Loan, 2.01%, Maturing November 15, 2012 | 256,368 |
|-----|--|---------|

Graham Packaging Holdings Co.

| | | |
|-------|---|-----------|
| 1,685 | Term Loan, 6.75%, Maturing April 5, 2014 | 1,702,453 |
| 2,250 | Term Loan, 6.00%, Maturing September 23, 2016 | 2,276,017 |

Graphic Packaging International, Inc.

| | | |
|-------|---|-----------|
| 3,915 | Term Loan, 2.29%, Maturing May 16, 2014 | 3,848,592 |
| 418 | Term Loan, 3.04%, Maturing May 16, 2014 | 415,388 |

JSG Acquisitions

| | | |
|-------|--|-----------|
| 1,189 | Term Loan, 3.91%, Maturing December 31, 2014 | 1,181,469 |
|-------|--|-----------|

Reynolds Group Holdings, Inc.

| | | |
|-------|---|-----------|
| 1,200 | Term Loan, 2.38%, Maturing May 5, 2016 ⁽²⁾ | 1,210,660 |
| 894 | Term Loan, 6.25%, Maturing May 5, 2016 | 901,080 |
| 1,950 | Term Loan, 6.75%, Maturing May 5, 2016 | 1,969,285 |

Smurfit Kappa Acquisitions

| | | |
|-------|--|-----------|
| 1,189 | Term Loan, 3.66%, Maturing December 31, 2014 | 1,181,469 |
|-------|--|-----------|

Smurfit-Stone Container Corp.

| | | |
|-------|--|-----------|
| 2,419 | Term Loan, 6.75%, Maturing February 22, 2016 | 2,445,546 |
|-------|--|-----------|

\$ 20,124,663

Cosmetics / Toiletries 1.3%

Alliance Boots Holdings, Ltd.

| | | | |
|-----|-------|---|--------------|
| GBP | 775 | Term Loan, 3.56%, Maturing July 5, 2015 | \$ 1,123,694 |
| EUR | 1,000 | | 1,297,419 |

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| | | |
|----------------------------------|--|-----------|
| | Term Loan, 3.80%, Maturing July 5, 2015 | |
| American Safety Razor Co. | | |
| 1 | Term Loan, 8.75%, Maturing July 31, 2013 ⁽³⁾ | 742 |
| 900 | Term Loan - Second Lien, 0.00%, Maturing January 30, 2014 ⁽⁶⁾ | 177,750 |
| Bausch & Lomb, Inc. | | |
| 292 | Term Loan, 3.51%, Maturing April 24, 2015 | 285,227 |
| 1,204 | Term Loan, 3.53%, Maturing April 24, 2015 | 1,176,183 |
| KIK Custom Products, Inc. | | |
| 975 | Term Loan - Second Lien, 5.29%, Maturing November 30, 2014 | 663,000 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|---------------------|
| Cosmetics / Toiletries (continued) | | |
| Prestige Brands, Inc. | | |
| 1,719 | Term Loan, 4.75%, Maturing March 24, 2016 | \$ 1,732,799 |
| | | \$ 6,456,814 |
| Drugs 0.9% | | |
| Graceway Pharmaceuticals, LLC | | |
| 1,250 | Term Loan, 5.05%, Maturing May 3, 2012 | \$ 764,360 |
| 292 | Term Loan, 10.01%, Maturing November 3, 2013 ⁽³⁾ | 7,292 |
| 1,500 | Term Loan - Second Lien, 0.00%, Maturing May 3, 2013 ⁽⁶⁾ | 193,125 |
| Pharmaceutical Holdings Corp. | | |
| 125 | Term Loan, 4.54%, Maturing January 30, 2012 | 123,450 |
| Valeant Pharmaceuticals | | |
| 775 | Term Loan, 4.55%, Maturing September 27, 2016 ⁽²⁾ | 783,671 |
| Warner Chilcott Corp. | | |
| 695 | Term Loan, 6.00%, Maturing October 30, 2014 | 694,773 |
| 335 | Term Loan, 6.25%, Maturing April 30, 2015 | 337,195 |
| 558 | Term Loan, 6.25%, Maturing April 30, 2015 | 561,491 |
| 245 | Term Loan, Maturing February 22, 2016 ⁽⁷⁾ | 246,827 |
| 755 | | 761,437 |

Term Loan, Maturing February 22,
2016⁽⁷⁾

\$ 4,473,621

Ecological Services and Equipment 2.0%

Cory Environmental Holdings

GBP 500 Term Loan - Second Lien, 4.99%,
Maturing September 30, 2014 \$ 620,911

Environmental Systems Products Holdings, Inc.

893 Term Loan - Second Lien, 13.50%,
Maturing September 12, 2014 780,908

Kemble Water Structure, Ltd.

GBP 4,250 Term Loan - Second Lien, 5.03%,
Maturing October 13, 2013 6,537,592

Sensus Metering Systems, Inc.

2,048 Term Loan, 7.00%, Maturing June 3,
2013 2,060,789

\$ 10,000,200

Electronics / Electrical 4.6%

Aspect Software, Inc.

1,567 Term Loan, 6.25%, Maturing April 19,
2016 \$ 1,565,820

Christie/Aix, Inc.

706 Term Loan, 5.25%, Maturing April 29,
2016 702,717

FCI International S.A.S.

156 Term Loan, 3.66%, Maturing
November 1, 2013 150,658

162 Term Loan, 3.66%, Maturing
November 1, 2013 156,492

156 Term Loan, 3.66%, Maturing
October 31, 2014 150,658

162 Term Loan, 3.66%, Maturing
October 31, 2014 156,492

Freescale Semiconductor, Inc.

2,784 Term Loan, 4.51%, Maturing
December 1, 2016 2,626,403

Infor Enterprise Solutions Holdings

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| | | |
|---|--|----------------------|
| 500 | Term Loan, 5.76%, Maturing March 2, 2014 | 322,500 |
| 1,491 | Term Loan, 6.01%, Maturing July 28, 2015 | 1,380,682 |
| 2,857 | Term Loan, 6.01%, Maturing July 28, 2015 | 2,658,807 |
| 183 | Term Loan - Second Lien, 6.51%, Maturing March 2, 2014 | 122,375 |
| 317 | Term Loan - Second Lien, 6.51%, Maturing March 2, 2014 | 215,333 |
| Network Solutions, LLC | | |
| 492 | Term Loan, 2.52%, Maturing March 7, 2014 | 465,875 |
| Open Solutions, Inc. | | |
| 2,027 | Term Loan, 2.42%, Maturing January 23, 2014 | 1,724,865 |
| Sensata Technologies Finance Co. | | |
| 2,700 | Term Loan, 2.04%, Maturing April 26, 2013 | 2,636,934 |
| Shield Finance Co. S.A.R.L. | | |
| 868 | Term Loan, 7.75%, Maturing June 15, 2016 | 868,437 |
| Spanion, LLC | | |
| 995 | Term Loan, 7.50%, Maturing January 8, 2015 | 1,005,779 |
| Spectrum Brands, Inc. | | |
| 3,250 | Term Loan, 8.00%, Maturing June 16, 2016 | 3,320,080 |
| VeriFone, Inc. | | |
| 2,013 | Term Loan, 3.01%, Maturing October 31, 2013 | 2,003,308 |
| Vertafore, Inc. | | |
| 998 | Term Loan, 6.75%, Maturing July 29, 2016 | 1,002,737 |
| | | \$ 23,236,952 |

Equipment Leasing 0.2%

Hertz Corp.

| | | |
|-------|--|---------------------|
| 1,065 | Term Loan, 2.01%, Maturing December 21, 2012 | \$ 1,056,985 |
| 15 | Term Loan, 2.09%, Maturing December 21, 2012 | 14,699 |
| | | \$ 1,071,684 |

Farming / Agriculture 0.7%

CF Industries, Inc.

| | | |
|-------|---|--------------|
| 1,752 | Term Loan, 4.50%, Maturing April 6, 2015 | \$ 1,768,102 |
|-------|---|--------------|

WM. Bolthouse Farms, Inc.

| | | |
|-------|---|-----------|
| 1,716 | Term Loan, 5.50%, Maturing February 11, 2016 | 1,718,950 |
|-------|---|-----------|

\$ 3,487,052

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|--------------|
| Financial Intermediaries | 4.8% | |
| Citico III, Ltd. | | |
| 2,654 | Term Loan, 4.75%, Maturing May 30, 2014 | \$ 2,554,189 |
| Fidelity National Information Services, Inc. | | |
| 2,450 | Term Loan, 5.25%, Maturing July 18, 2016 | 2,480,179 |
| First Data Corp. | | |
| 951 | Term Loan, 3.01%, Maturing September 24, 2014 | 856,485 |
| 1,906 | Term Loan, 3.01%, Maturing September 24, 2014 | 1,717,136 |
| Grosvenor Capital Management | | |
| 1,353 | Term Loan, 4.31%, Maturing December 5, 2016 | 1,336,311 |
| Interactive Data Corp. | | |
| 1,471 | Term Loan, 6.75%, Maturing January 27, 2017 | 1,498,127 |
| Jupiter Asset Management Group | | |
| GBP 302 | Term Loan, 4.71%, Maturing March 17, 2015 | 463,591 |
| LPL Holdings, Inc. | | |
| 952 | Term Loan, 2.04%, Maturing June 28, 2013 | 947,960 |
| 2,998 | Term Loan, 4.25%, Maturing June 25, 2015 | 2,988,277 |
| 2,164 | Term Loan, 5.25%, Maturing June 28, 2017 | 2,160,067 |
| MSCI, Inc. | | |
| 3,267 | Term Loan, 4.75%, Maturing June 1, 2016 | 3,290,804 |
| Nuveen Investments, Inc. | | |
| 3,580 | Term Loan, 3.29%, Maturing November 13, 2014 | 3,362,494 |
| Oxford Acquisition III, Ltd. | | |
| 374 | | 343,287 |

| | | | |
|-----|-------|--|----------------------|
| | | Term Loan, 2.04%, Maturing May 12, 2014 | |
| | | RJO Holdings Corp. (RJ O Brien) | |
| | 459 | Term Loan, 5.26%, Maturing July 12, 2014 ⁽³⁾ | 305,392 |
| | | | \$ 24,304,299 |
| | | | |
| | | Food Products 3.5% | |
| | | Acosta, Inc. | |
| | 2,970 | Term Loan, 2.51%, Maturing July 28, 2013 | \$ 2,914,361 |
| | | American Seafoods Group, LLC | |
| | 698 | Term Loan, 5.50%, Maturing May 7, 2015 | 698,900 |
| | | Dole Food Company, Inc. | |
| | 1,686 | Term Loan, 5.04%, Maturing March 2, 2017 | 1,698,631 |
| | 679 | Term Loan, 5.06%, Maturing March 2, 2017 | 683,898 |
| | | Michael Foods Holdings, Inc. | |
| | 723 | Term Loan, 6.25%, Maturing June 29, 2016 | 734,035 |
| | | Pierre Foods, Inc. | |
| | 1,250 | Term Loan, 7.00%, Maturing September 30, 2016 | 1,239,063 |
| | | Pinnacle Foods Finance, LLC | |
| | 6,568 | Term Loan, 2.76%, Maturing April 2, 2014 | 6,407,871 |
| | | Provimi Group SA | |
| | 205 | Term Loan, 2.51%, Maturing June 28, 2015 | 194,677 |
| | 252 | Term Loan, 2.51%, Maturing June 28, 2015 | 239,573 |
| EUR | 265 | Term Loan, 3.10%, Maturing June 28, 2015 | 350,454 |
| EUR | 428 | Term Loan, 3.10%, Maturing June 28, 2015 | 565,461 |
| EUR | 457 | Term Loan, 3.10%, Maturing June 28, 2015 | 603,965 |
| EUR | 590 | Term Loan, 3.10%, Maturing June 28, 2015 | 778,843 |
| | 148 | Term Loan - Second Lien, 4.51%, Maturing December 28, 2016 | 128,720 |
| EUR | 24 | Term Loan - Second Lien, 5.10%, Maturing December 28, 2016 | 29,225 |

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| | | | |
|-----|-----|---|---------|
| EUR | 331 | Term Loan - Second Lien, 5.10%, Maturing December 28, 2016 | 400,264 |
|-----|-----|---|---------|

\$ 17,667,941

Food Service 5.1%

AFC Enterprises, Inc.

| | | |
|-----|--|------------|
| 255 | Term Loan, 7.00%, Maturing May 11, 2013 | \$ 255,655 |
|-----|--|------------|

Aramark Corp.

| | | |
|---------|--|-----------|
| 169 | Term Loan, 2.28%, Maturing January 27, 2014 | 164,688 |
| GBP 963 | Term Loan, 2.86%, Maturing January 27, 2014 | 1,476,717 |
| 2,094 | Term Loan, 2.16%, Maturing January 27, 2014 | 2,041,665 |
| 304 | Term Loan, 3.36%, Maturing July 26, 2016 | 302,220 |
| 4,621 | Term Loan, 3.54%, Maturing July 26, 2016 | 4,595,459 |

Buffets, Inc.

| | | |
|-------|--|-----------|
| 1,241 | Term Loan, 12.00%, Maturing April 21, 2015 ⁽³⁾ | 1,165,170 |
| 117 | Term Loan, 7.39%, Maturing April 22, 2015 ⁽³⁾ | 90,434 |

Burger King Corp.

| | | |
|-------|--|-----------|
| 4,825 | Term Loan, 6.25%, Maturing October 19, 2016 | 4,875,059 |
|-------|--|-----------|

CBRL Group, Inc.

| | | |
|-----|--|---------|
| 906 | Term Loan, 1.96%, Maturing April 29, 2013 | 897,793 |
| 579 | Term Loan, 2.96%, Maturing April 27, 2016 | 574,143 |

Denny's, Inc.

| | | |
|-----|--|---------|
| 750 | Term Loan, 6.50%, Maturing September 20, 2016 | 752,344 |
|-----|--|---------|

DineEquity, Inc.

| | | |
|-------|--|-----------|
| 1,950 | Term Loan, 6.00%, Maturing October 19, 2017 | 1,972,751 |
|-------|--|-----------|

NPC International, Inc.

| | | |
|-----|---|---------|
| 308 | Term Loan, 2.03%, Maturing May 3, 2013 | 297,018 |
|-----|---|---------|

OSI Restaurant Partners, LLC

| | | |
|-------|---|-----------|
| 264 | Term Loan, 3.90%, Maturing June 14, 2013 | 248,671 |
| 2,864 | | 2,697,743 |

| | | | |
|-------------------------------------|-------|---|---------|
| | | Term Loan, 2.63%, Maturing June 14, 2014 | |
| QCE Finance, LLC | | | |
| | 1,123 | Term Loan, 5.06%, Maturing May 5, 2013 | 972,281 |
| Sagittarius Restaurants, LLC | | | |
| | 594 | Term Loan, 7.50%, Maturing May 18, 2015 | 594,746 |
| Selecta | | | |
| EUR | 741 | Term Loan - Second Lien, 5.04%, Maturing December 28, 2015 | 750,537 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|----------------------|
| Food Service (continued) | | |
| Wendy s/Arby s Restaurants, LLC | | |
| 873 | Term Loan, 5.00%, Maturing May 24, 2017 | \$ 878,722 |
| | | \$ 25,603,816 |
| Food / Drug Retailers 4.4% | | |
| General Nutrition Centers, Inc. | | |
| 6,285 | Term Loan, 2.53%, Maturing September 16, 2013 | \$ 6,143,318 |
| NBTY, Inc. | | |
| 2,100 | Term Loan, 6.25%, Maturing October 2, 2017 | 2,130,179 |
| Pantry, Inc. (The) | | |
| 221 | Term Loan, 2.01%, Maturing May 15, 2014 | 212,123 |
| 767 | Term Loan, 2.01%, Maturing May 15, 2014 | 736,720 |
| Rite Aid Corp. | | |
| 8,217 | Term Loan, 2.01%, Maturing June 4, 2014 | 7,417,485 |
| 1,054 | Term Loan, 6.00%, Maturing June 4, 2014 | 1,046,257 |
| Roundy s Supermarkets, Inc. | | |
| 3,297 | Term Loan, 7.00%, Maturing November 3, 2013 | 3,311,128 |
| 1,000 | Term Loan - Second Lien, 10.00%, Maturing April 18, 2016 | 1,021,875 |

\$ 22,019,085

Forest Products 1.8%

Georgia-Pacific Corp.

| | | |
|-------|---|---------------------|
| 1,769 | Term Loan, 2.29%, Maturing December 20, 2012 | \$ 1,769,089 |
| 5,914 | Term Loan, 2.29%, Maturing December 21, 2012 | 5,914,911 |
| 1,550 | Term Loan, 3.54%, Maturing December 23, 2014 | 1,555,842 |
| | | \$ 9,239,842 |

Health Care 17.7%

1-800-Contacts, Inc.

| | | |
|-----|---|------------|
| 941 | Term Loan, 7.70%, Maturing March 4, 2015 | \$ 935,804 |
|-----|---|------------|

Alliance Healthcare Services

| | | |
|-------|--|-----------|
| 1,216 | Term Loan, 5.50%, Maturing June 1, 2016 | 1,207,834 |
|-------|--|-----------|

American Medical Systems

| | | |
|----|---|--------|
| 39 | Term Loan, 2.56%, Maturing July 20, 2012 | 37,890 |
|----|---|--------|

Ardent Medical Services, Inc.

| | | |
|-------|--|-----------|
| 1,144 | Term Loan, 6.50%, Maturing September 15, 2015 | 1,137,098 |
|-------|--|-----------|

Aveta Holdings LLC

| | | |
|-----|--|---------|
| 602 | Term Loan, 8.00%, Maturing April 14, 2015 | 588,403 |
| 602 | Term Loan, 8.00%, Maturing April 14, 2015 | 588,403 |

Biomet, Inc.

| | | |
|-------|--|-----------|
| 3,735 | Term Loan, 3.28%, Maturing March 25, 2015 | 3,687,369 |
|-------|--|-----------|

| | | |
|-----------|--|-----------|
| EUR 1,188 | Term Loan, 3.81%, Maturing March 25, 2015 | 1,611,428 |
|-----------|--|-----------|

Bright Horizons Family Solutions, Inc.

| | | |
|-----|--|---------|
| 929 | Term Loan, 7.50%, Maturing May 28, 2015 | 933,268 |
|-----|--|---------|

Cardinal Health 409, Inc.

| | | |
|-------|--|-----------|
| 2,161 | Term Loan, 2.51%, Maturing April 10, 2014 | 2,030,860 |
|-------|--|-----------|

| | | |
|--|--|------------|
| Carestream Health, Inc. | | |
| 2,461 | Term Loan, 2.26%, Maturing April 30, 2013 | 2,411,015 |
| Carl Zeiss Vision Holding GmbH | | |
| 1,170 | Term Loan, 1.83%, Maturing October 24, 2014 | 1,020,825 |
| 130 | Term Loan, 4.00%, Maturing September 30, 2019 | 94,738 |
| CDRL MS, Inc. | | |
| 1,000 | Term Loan, 6.75%, Maturing September 29, 2016 | 1,008,125 |
| Community Health Systems, Inc. | | |
| 524 | Term Loan, 2.55%, Maturing July 25, 2014 | 514,625 |
| 10,187 | Term Loan, 2.55%, Maturing July 25, 2014 | 10,009,092 |
| Concentra, Inc. | | |
| 634 | Term Loan - Second Lien, 5.79%, Maturing June 25, 2015 | 607,075 |
| ConMed Corp. | | |
| 450 | Term Loan, 1.76%, Maturing April 12, 2013 | 423,366 |
| ConvaTec Cidron Healthcare | | |
| EUR 745 | Term Loan, 4.87%, Maturing July 30, 2016 | 1,005,731 |
| CRC Health Corp. | | |
| 473 | Term Loan, 2.54%, Maturing February 6, 2013 | 451,350 |
| 475 | Term Loan, 2.54%, Maturing February 6, 2013 | 453,618 |
| Dako EQT Project Delphi | | |
| 500 | Term Loan - Second Lien, 4.04%, Maturing December 12, 2016 | 361,250 |
| DaVita, Inc. | | |
| 3,000 | Term Loan, 4.50%, Maturing October 20, 2016 | 3,028,437 |
| DJO Finance, LLC | | |
| 642 | Term Loan, 3.26%, Maturing May 20, 2014 | 625,789 |
| Fresenius Medical Care Holdings | | |
| 486 | Term Loan, 1.66%, Maturing March 31, 2013 | 481,075 |
| Grifols SA | | |
| 2,150 | Term Loan, Maturing October 15, 2016 ⁽⁷⁾ | 2,175,531 |
| Hanger Orthopedic Group, Inc. | | |
| 694 | Term Loan, 2.26%, Maturing May 28, 2013 | 691,806 |
| Harvard Drug Group, LLC | | |
| 118 | Term Loan, 6.50%, Maturing April 8, 2016 | 111,670 |

| | | | |
|--|-------|--|-----------|
| | 857 | Term Loan, 6.50%, Maturing April 8, 2016 | 812,143 |
| HCA, Inc. | | | |
| | 2,572 | Term Loan, 2.54%, Maturing November 18, 2013 | 2,520,148 |
| | 6,168 | Term Loan, 3.54%, Maturing March 31, 2017 | 6,062,285 |
| Health Management Association, Inc. | | | |
| | 7,059 | Term Loan, 2.04%, Maturing February 28, 2014 | 6,906,572 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|--|--------------|
| Health Care (continued) | | |
| Iasis Healthcare, LLC | | |
| 78 | Term Loan, 2.25%, Maturing March 14, 2014 | \$ 75,824 |
| 286 | Term Loan, 2.26%, Maturing March 14, 2014 | 277,942 |
| 825 | Term Loan, 2.26%, Maturing March 14, 2014 | 803,043 |
| Ikaria Acquisition, Inc. | | |
| 1,000 | Term Loan, 7.00%, Maturing May 16, 2016 | 959,583 |
| IM U.S. Holdings, LLC | | |
| 972 | Term Loan, 2.27%, Maturing June 26, 2014 | 940,152 |
| 625 | Term Loan - Second Lien, 4.51%, Maturing June 26, 2015 | 606,836 |
| IMS Health, Inc. | | |
| 1,287 | Term Loan, 5.25%, Maturing February 26, 2016 | 1,301,660 |
| inVentiv Health, Inc. | | |
| 798 | Term Loan, 6.50%, Maturing August 4, 2016 | 803,611 |
| Lifepoint Hospitals, Inc. | | |
| 2,022 | Term Loan, 3.07%, Maturing April 15, 2015 | 2,023,811 |
| MPT Operating Partnership, L.P. | | |
| 1,097 | Term Loan, 5.00%, Maturing May 17, 2016 | 1,097,250 |
| MultiPlan, Inc. | | |
| 2,626 | Term Loan, 6.50%, Maturing August 26, 2017 | 2,639,898 |
| Mylan, Inc. | | |
| 2,960 | Term Loan, 3.56%, Maturing October 2, 2014 | 2,969,185 |
| National Mentor Holdings, Inc. | | |
| 62 | | 57,211 |

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| | | | |
|---|-------|--|----------------------|
| | | Term Loan, 2.15%, Maturing June 29, 2013 | |
| | 994 | Term Loan, 2.29%, Maturing June 29, 2013 | 923,427 |
| National Renal Institutes, Inc. | | | |
| | 696 | Term Loan, 9.00%, Maturing March 31, 2013 | 698,294 |
| Nyco Holdings | | | |
| EUR | 472 | Term Loan, 4.60%, Maturing December 29, 2014 | 617,774 |
| EUR | 471 | Term Loan, 5.35%, Maturing December 29, 2015 | 617,623 |
| Physiotherapy Associates, Inc. | | | |
| | 650 | Term Loan, 7.50%, Maturing June 27, 2013 | 591,503 |
| Prime Healthcare Services, Inc. | | | |
| | 2,313 | Term Loan, 7.25%, Maturing April 22, 2015 | 2,220,840 |
| RadNet Management, Inc. | | | |
| | 1,095 | Term Loan, 5.75%, Maturing April 1, 2016 | 1,081,503 |
| ReAble Therapeutics Finance, LLC | | | |
| | 2,480 | Term Loan, 2.26%, Maturing November 16, 2013 | 2,432,248 |
| RehabCare Group, Inc. | | | |
| | 771 | Term Loan, 6.00%, Maturing November 24, 2015 | 774,682 |
| Select Medical Holdings Corp. | | | |
| | 2,353 | Term Loan, 4.09%, Maturing August 22, 2014 | 2,347,378 |
| Skillsoft Corp. | | | |
| | 998 | Term Loan, 6.50%, Maturing May 26, 2017 | 1,007,891 |
| Sunrise Medical Holdings, Inc. | | | |
| EUR | 291 | Term Loan, 8.00%, Maturing May 13, 2014 | 374,808 |
| TZ Merger Sub., Inc. (TriZetto) | | | |
| | 723 | Term Loan, 6.75%, Maturing August 4, 2015 | 723,353 |
| Universal Health Services, Inc. | | | |
| | 2,300 | Term Loan, Maturing July 28, 2016 ⁽⁷⁾ | 2,326,277 |
| Vanguard Health Holding Co., LLC | | | |
| | 1,592 | Term Loan, 5.00%, Maturing January 29, 2016 | 1,595,824 |
| VWR Funding, Inc. | | | |
| | 2,228 | Term Loan, 2.76%, Maturing June 30, 2014 | 2,147,532 |
| | | | \$ 89,571,586 |

Home Furnishings 1.0%

Hunter Fan Co.

| | | |
|-----|---|------------|
| 365 | Term Loan, 2.76%, Maturing April 16, 2014 | \$ 320,971 |
|-----|---|------------|

Interline Brands, Inc.

| | | |
|-----|--|---------|
| 936 | Term Loan, 2.01%, Maturing June 23, 2013 | 898,119 |
|-----|--|---------|

| | | |
|-----|--|---------|
| 255 | Term Loan, 2.01%, Maturing June 23, 2013 | 244,487 |
|-----|--|---------|

National Bedding Co., LLC

| | | |
|-------|--|-----------|
| 1,453 | Term Loan, 2.38%, Maturing February 28, 2013 | 1,404,417 |
|-------|--|-----------|

| | | |
|-------|--|-----------|
| 2,050 | Term Loan - Second Lien, 5.38%, Maturing February 28, 2014 | 1,952,625 |
|-------|--|-----------|

\$ 4,820,619

Industrial Equipment 4.3%

Brand Energy and Infrastructure Services, Inc.

| | | |
|-------|---|--------------|
| 2,688 | Term Loan, 2.56%, Maturing February 7, 2014 | \$ 2,543,312 |
|-------|---|--------------|

| | | |
|-----|---|---------|
| 737 | Term Loan, 3.56%, Maturing February 7, 2014 | 702,383 |
|-----|---|---------|

Bucyrus International, Inc.

| | | |
|-------|--|-----------|
| 1,294 | Term Loan, 4.50%, Maturing February 19, 2016 | 1,309,133 |
|-------|--|-----------|

Butterfly Wendel US, Inc.

| | | |
|-----|--|---------|
| 280 | Term Loan, 3.91%, Maturing June 23, 2014 | 253,578 |
|-----|--|---------|

| | | |
|-----|--|---------|
| 280 | Term Loan, 4.16%, Maturing June 22, 2015 | 253,496 |
|-----|--|---------|

EPD Holdings, (Goodyear Engineering Products)

| | | |
|-----|--|---------|
| 238 | Term Loan, 2.76%, Maturing July 31, 2014 | 207,385 |
|-----|--|---------|

| | | |
|-------|--|-----------|
| 1,664 | Term Loan, 2.76%, Maturing July 31, 2014 | 1,447,965 |
|-------|--|-----------|

| | | |
|-----|--|---------|
| 775 | Term Loan - Second Lien, 6.01%, Maturing July 13, 2015 | 611,766 |
|-----|--|---------|

Generac Acquisition Corp.

| | | |
|-------|--|-----------|
| 1,401 | Term Loan, 2.79%, Maturing November 11, 2013 | 1,325,616 |
|-------|--|-----------|

Gleason Corp.

| | | | |
|-------------------------|-------|---|-----------|
| | 707 | Term Loan, 2.07%, Maturing June 30, 2013 | 696,209 |
| Jason, Inc. | 69 | Term Loan, 8.25%, Maturing September 21, 2014 | 67,910 |
| | 177 | Term Loan, 8.25%, Maturing September 21, 2014 | 173,412 |
| John Maneely Co. | 4,143 | Term Loan, 3.54%, Maturing December 9, 2013 | 4,056,818 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* | (000 s omitted) Borrower/Tranche Description | Value |
|---|---|----------------------|
| Industrial Equipment (continued) | | |
| KION Group GmbH | | |
| 1,014 | Term Loan, 4.01%, Maturing December 23, 2014 ⁽³⁾ | \$ 817,570 |
| 1,014 | Term Loan, 4.26%, Maturing December 23, 2015 ⁽³⁾ | 817,570 |
| Pinafore, LLC | | |
| 2,150 | Term Loan, 6.75%, Maturing September 29, 2016 | 2,178,051 |
| Polypore, Inc. | | |
| 3,825 | Term Loan, 2.26%, Maturing July 3, 2014 | 3,745,721 |
| Sequa Corp. | | |
| 794 | Term Loan, 3.54%, Maturing December 3, 2014 | 753,247 |
| | | \$ 21,961,142 |
| Insurance 3.7% | | |
| Alliant Holdings I, Inc. | | |
| 2,446 | Term Loan, 3.29%, Maturing August 21, 2014 | \$ 2,378,770 |
| AmWINS Group, Inc. | | |
| 956 | Term Loan, 2.80%, Maturing June 8, 2013 | 892,533 |
| 500 | Term Loan - Second Lien, 5.80%, Maturing June 8, 2014 | 427,500 |
| Applied Systems, Inc. | | |
| 2,106 | Term Loan, 2.76%, Maturing September 26, 2013 | 1,992,075 |
| CCC Information Services Group, Inc. | | |
| 1,547 | Term Loan, 2.51%, Maturing February 10, 2013 | 1,510,452 |

| | | |
|---|---|----------------------|
| Conseco, Inc. | | |
| 3,627 | Term Loan, 7.50%, Maturing October 10, 2013 | 3,582,482 |
| Crawford & Company | | |
| 1,155 | Term Loan, 5.25%, Maturing October 30, 2013 | 1,135,346 |
| Crump Group, Inc. | | |
| 650 | Term Loan, 3.26%, Maturing August 1, 2014 | 612,091 |
| HUB International Holdings, Inc. | | |
| 492 | Term Loan, 2.79%, Maturing June 13, 2014 | 471,921 |
| 2,189 | Term Loan, 2.79%, Maturing June 13, 2014 | 2,099,977 |
| 569 | Term Loan, 6.75%, Maturing June 13, 2014 | 564,981 |
| U.S.I. Holdings Corp. | | |
| 3,007 | Term Loan, 2.76%, Maturing May 5, 2014 | 2,821,147 |
| | | \$ 18,489,275 |

Leisure Goods / Activities / Movies 8.0%

| | | |
|---|--|------------|
| 24 Hour Fitness Worldwide, Inc. | | |
| 998 | Term Loan, 6.75%, Maturing April 22, 2016 | \$ 954,795 |
| AMC Entertainment, Inc. | | |
| 3,747 | Term Loan, 1.76%, Maturing January 28, 2013 | 3,697,542 |
| AMF Bowling Worldwide, Inc. | | |
| 1,000 | Term Loan - Second Lien, 6.51%, Maturing December 8, 2013 | 820,000 |
| Bombardier Recreational Products | | |
| 1,823 | Term Loan, 3.39%, Maturing June 28, 2013 | 1,638,228 |
| Carmike Cinemas, Inc. | | |
| 2,426 | Term Loan, 5.50%, Maturing January 27, 2016 | 2,439,623 |
| Cedar Fair, L.P. | | |
| 1,995 | Term Loan, 5.50%, Maturing December 15, 2016 | 2,023,850 |
| CFV I, LLC/Hicks Sports Group | | |
| 86 | Term Loan, 11.77%, Maturing December 1, 2010 ⁽²⁾⁽³⁾ | 89,685 |
| Cinemark, Inc. | | |
| 3,469 | Term Loan, 3.55%, Maturing April 29, 2016 | 3,482,327 |
| Dave & Buster s, Inc. | | |
| 995 | Term Loan, 6.00%, Maturing June 1, 2016 | 995,000 |
| Deluxe Entertainment Services | | |
| 59 | Term Loan, 6.25%, Maturing May 11, 2013 | 56,195 |

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| | | |
|--|---|----------------------|
| 974 | Term Loan, 6.25%, Maturing May 11, 2013 | 927,212 |
| Fender Musical Instruments Corp. | | |
| 570 | Term Loan, 2.54%, Maturing June 9, 2014 | 493,046 |
| 289 | Term Loan, 2.55%, Maturing June 9, 2014 | 250,323 |
| Formula One (Alpha D2, Ltd.) | | |
| 2,000 | Term Loan - Second Lien, 3.80%, Maturing June 30, 2014 | 1,764,250 |
| Metro-Goldwyn-Mayer Holdings, Inc. | | |
| 2,786 | Term Loan, 0.00%, Maturing April 9, 2012 ⁽⁶⁾ | 1,304,840 |
| National CineMedia, LLC | | |
| 2,750 | Term Loan, 2.05%, Maturing February 13, 2015 | 2,672,656 |
| Regal Cinemas Corp. | | |
| 5,061 | Term Loan, 3.79%, Maturing November 21, 2016 | 5,082,508 |
| Revolution Studios Distribution Co., LLC | | |
| 971 | Term Loan, 4.01%, Maturing December 21, 2014 | 767,074 |
| 800 | Term Loan - Second Lien, 7.26%, Maturing June 21, 2015 ⁽⁵⁾ | 376,000 |
| Six Flags Theme Parks, Inc. | | |
| 2,516 | Term Loan, 6.00%, Maturing June 30, 2016 | 2,529,722 |
| SW Acquisition Co., Inc. | | |
| 1,861 | Term Loan, 5.75%, Maturing June 1, 2016 | 1,876,930 |
| Universal City Development Partners, Ltd. | | |
| 2,599 | Term Loan, 5.50%, Maturing November 6, 2014 | 2,623,633 |
| Zuffa, LLC | | |
| 3,943 | Term Loan, 2.31%, Maturing June 22, 2015 | 3,761,371 |
| | | \$ 40,626,810 |

Lodging and Casinos 2.5%

Ameristar Casinos, Inc.

| | | |
|-------|--|--------------|
| 1,048 | Term Loan, 3.54%, Maturing November 10, 2012 | \$ 1,047,532 |
|-------|--|--------------|

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* | (000 s omitted) Borrower/Tranche Description | Value |
|--|---|----------------------|
| Lodging and Casinos (continued) | | |
| Gateway Casinos & Entertainment | | |
| 412 | Term Loan, 10.50%, Maturing September 16, 2014 | \$ 413,217 |
| Harrah s Operating Co. | | |
| 1,223 | Term Loan, 3.29%, Maturing January 28, 2015 | 1,082,448 |
| 2,978 | Term Loan, 9.50%, Maturing October 31, 2016 | 3,104,458 |
| Isle of Capri Casinos, Inc. | | |
| 300 | Term Loan, 5.00%, Maturing November 25, 2013 | 294,010 |
| 341 | Term Loan, 5.00%, Maturing November 25, 2013 | 334,284 |
| 852 | Term Loan, 5.00%, Maturing November 25, 2013 | 835,710 |
| Las Vegas Sands, LLC | | |
| 555 | Term Loan, 3.03%, Maturing November 23, 2016 | 519,450 |
| 2,196 | Term Loan, 3.03%, Maturing November 23, 2016 | 2,057,937 |
| LodgeNet Entertainment Corp. | | |
| 1,540 | Term Loan, 2.29%, Maturing April 4, 2014 | 1,465,434 |
| Penn National Gaming, Inc. | | |
| 354 | Term Loan, 2.03%, Maturing October 3, 2012 | 351,851 |
| Tropicana Entertainment, Inc. | | |
| 184 | Term Loan, 15.00%, Maturing December 29, 2012 | 203,158 |
| VML US Finance, LLC | | |
| 994 | Term Loan, 4.78%, Maturing May 27, 2013 | 994,238 |
| | | \$ 12,703,727 |

Nonferrous Metals / Minerals 1.5%

Euramax International, Inc.

| | | |
|-----|--|------------|
| 307 | Term Loan, 10.00%, Maturing June 29, 2013 | \$ 289,771 |
| 291 | Term Loan, 14.00%, Maturing June 29, 2013 ⁽³⁾ | 274,560 |

Fairmount Minerals, Ltd.

| | | |
|-------|---|-----------|
| 1,025 | Term Loan, 6.25%, Maturing August 5, 2016 | 1,038,240 |
|-------|---|-----------|

Noranda Aluminum Acquisition

| | | |
|-------|---|-----------|
| 1,279 | Term Loan, 2.05%, Maturing May 18, 2014 | 1,246,916 |
|-------|---|-----------|

Novelis, Inc.

| | | |
|-------|---|-----------|
| 612 | Term Loan, 2.26%, Maturing July 6, 2014 | 602,461 |
| 1,347 | Term Loan, 2.26%, Maturing July 7, 2014 | 1,325,506 |

Oxbow Carbon and Mineral Holdings

| | | |
|-------|--|-----------|
| 2,912 | Term Loan, 2.29%, Maturing May 8, 2014 | 2,822,425 |
|-------|--|-----------|

\$ 7,599,879

Oil and Gas 3.4%

Big West Oil, LLC

| | | |
|-------|---|--------------|
| 1,270 | Term Loan, 12.00%, Maturing July 23, 2015 | \$ 1,293,160 |
|-------|---|--------------|

CITGO Petroleum Corp.

| | | |
|-------|--|-----------|
| 568 | Term Loan, 8.00%, Maturing June 24, 2015 | 579,098 |
| 2,569 | Term Loan, 9.00%, Maturing June 15, 2017 | 2,644,014 |

Crestwood Holdings, LLC

| | | |
|-----|--|---------|
| 475 | Term Loan, 10.75%, Maturing September 30, 2016 | 481,531 |
|-----|--|---------|

Dresser, Inc.

| | | |
|-------|--|-----------|
| 1,420 | Term Loan, 2.61%, Maturing May 4, 2014 | 1,415,597 |
| 1,000 | Term Loan - Second Lien, 6.11%, Maturing May 4, 2015 | 1,000,000 |

Dynegy Holdings, Inc.

| | | |
|-------|--|-----------|
| 332 | Term Loan, 4.01%, Maturing April 2, 2013 | 328,827 |
| 5,161 | Term Loan, 4.01%, Maturing April 2, 2013 | 5,105,769 |

Enterprise GP Holdings, L.P.

| | | |
|-------|--|-----------|
| 1,103 | Term Loan, 2.51%, Maturing November 10, 2014 | 1,100,433 |
|-------|--|-----------|

Hercules Offshore, Inc.

| | | |
|---|--|-------|
| 3 | Term Loan, 6.00%, Maturing July 11, 2013 | 2,439 |
|---|--|-------|

Precision Drilling Corp.

| | | |
|-----|--|---------|
| 851 | | 845,516 |
|-----|--|---------|

| | | |
|--|---|----------------------|
| | Term Loan, 4.26%, Maturing December 23, 2013 | |
| SemGroup Corp. | | |
| 832 | Term Loan, 3.78%, Maturing November 30, 2012 | 838,187 |
| Sheridan Production Partners I, LLC | | |
| 108 | Term Loan, 7.50%, Maturing April 20, 2017 | 107,776 |
| 176 | Term Loan, 7.50%, Maturing April 20, 2017 | 176,450 |
| 1,329 | Term Loan, 7.50%, Maturing April 20, 2017 | 1,331,611 |
| | | \$ 17,250,408 |
| | | |
| Publishing | 5.8% | |
| American Media Operations, Inc. | | |
| 2,174 | Term Loan, 10.00%, Maturing January 30, 2013 ⁽³⁾ | \$ 2,149,145 |
| Aster Zweite Beteiligungs GmbH | | |
| 1,775 | Term Loan, 2.71%, Maturing September 27, 2013 | 1,658,516 |
| GateHouse Media Operating, Inc. | | |
| 870 | Term Loan, 2.26%, Maturing August 28, 2014 | 321,430 |
| 2,074 | Term Loan, 2.26%, Maturing August 28, 2014 | 766,302 |
| 674 | Term Loan, 2.51%, Maturing August 28, 2014 | 248,888 |
| Getty Images, Inc. | | |
| 3,314 | Term Loan, 6.25%, Maturing July 2, 2015 | 3,322,721 |
| Lamar Media Corp. | | |
| 985 | Term Loan, 4.25%, Maturing December 30, 2016 | 992,228 |
| Laureate Education, Inc. | | |
| 345 | Term Loan, 3.54%, Maturing August 17, 2014 | 323,735 |
| 2,302 | Term Loan, 3.54%, Maturing August 17, 2014 | 2,162,528 |
| 1,485 | Term Loan, 7.00%, Maturing August 31, 2014 | 1,474,976 |
| MediaNews Group, Inc. | | |
| 144 | Term Loan, 8.50%, Maturing March 19, 2014 | 136,790 |
| Merrill Communications, LLC | | |
| 1,225 | | 1,185,487 |

Term Loan, 8.50%, Maturing December 24,
2012⁽³⁾

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* | Borrower/Tranche Description | Value |
|---|--|----------------------|
| (000 s omitted) | | |
| Publishing (continued) | | |
| Nelson Education, Ltd. | | |
| 473 | Term Loan, 2.79%, Maturing July 5, 2014 | \$ 423,155 |
| Nielsen Finance, LLC | | |
| 5,734 | Term Loan, 2.26%, Maturing August 9, 2013 | 5,620,509 |
| 1,982 | Term Loan, 4.01%, Maturing May 2, 2016 | 1,964,072 |
| SGS International, Inc. | | |
| 483 | Term Loan, 3.76%, Maturing December 30, 2011 | 480,777 |
| Source Interlink Companies, Inc. | | |
| 905 | Term Loan, 10.75%, Maturing June 18, 2013 | 863,808 |
| 555 | Term Loan, 15.00%, Maturing March 18, 2014 ⁽³⁾ | 349,423 |
| Trader Media Corp. | | |
| GBP 1,287 | Term Loan, 2.57%, Maturing March 23, 2015 | 1,985,227 |
| Xsys, Inc. | | |
| 1,509 | Term Loan, 2.71%, Maturing September 27, 2013 | 1,410,423 |
| 1,699 | Term Loan, 2.71%, Maturing September 27, 2014 | 1,587,965 |
| | | \$ 29,428,105 |
| Radio and Television 2.6% | | |
| Block Communications, Inc. | | |
| 810 | | \$ 769,144 |

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| | | |
|---|---|----------------------|
| | Term Loan, 2.29%, Maturing December 22, 2011 | |
| CMP KC, LLC | | |
| 956 | Term Loan, 0.00%, Maturing May 3, 2011 ⁽⁵⁾⁽⁶⁾ | 274,426 |
| CMP Susquehanna Corp. | | |
| 1,552 | Term Loan, 2.31%, Maturing May 5, 2013 | 1,392,114 |
| Gray Television, Inc. | | |
| 665 | Term Loan, 3.76%, Maturing December 31, 2014 | 646,381 |
| HIT Entertainment, Inc. | | |
| 746 | Term Loan, 5.68%, Maturing June 1, 2012 | 727,056 |
| Live Nation Worldwide, Inc. | | |
| 2,289 | Term Loan, 4.50%, Maturing November 7, 2016 | 2,282,779 |
| Mission Broadcasting, Inc. | | |
| 525 | Term Loan, 5.00%, Maturing September 30, 2016 | 525,184 |
| Nexstar Broadcasting, Inc. | | |
| 821 | Term Loan, 5.01%, Maturing September 30, 2016 | 821,441 |
| Raycom TV Broadcasting, LLC | | |
| 871 | Term Loan, 1.81%, Maturing June 25, 2014 | 809,681 |
| Univision Communications, Inc. | | |
| 1,853 | Term Loan, 2.51%, Maturing September 29, 2014 | 1,754,771 |
| 1,853 | Term Loan, 4.51%, Maturing March 31, 2017 | 1,740,654 |
| Weather Channel | | |
| 1,141 | Term Loan, 5.00%, Maturing September 14, 2015 | 1,147,830 |
| | | \$ 12,891,461 |
| | | |
| Rail Industries | 0.4% | |
| Kansas City Southern Railway Co. | | |
| 1,939 | Term Loan, 2.05%, Maturing April 26, 2013 | \$ 1,896,523 |
| | | \$ 1,896,523 |

| | | | |
|--|--|--|----------------------|
| Retailers (Except Food and Drug) | 3.4% | | |
| American Achievement Corp. | | | |
| 104 | Term Loan, 6.26%, Maturing March 25, 2011 | | \$ 103,295 |
| Amscan Holdings, Inc. | | | |
| 455 | Term Loan, 2.54%, Maturing May 25, 2013 | | 439,514 |
| Educate, Inc. | | | |
| 498 | Term Loan - Second Lien, 8.51%, Maturing June 16, 2014 | | 485,076 |
| FTD, Inc. | | | |
| 1,108 | Term Loan, 6.75%, Maturing August 26, 2014 | | 1,112,290 |
| Harbor Freight Tools USA, Inc. | | | |
| 873 | Term Loan, 5.02%, Maturing February 24, 2016 | | 873,354 |
| Michaels Stores, Inc. | | | |
| 1,000 | Term Loan, 2.63%, Maturing October 31, 2013 | | 971,625 |
| Neiman Marcus Group, Inc. | | | |
| 3,346 | Term Loan, 2.29%, Maturing April 5, 2013 | | 3,269,906 |
| Orbitz Worldwide, Inc. | | | |
| 1,108 | Term Loan, 3.28%, Maturing July 25, 2014 | | 1,078,891 |
| Oriental Trading Co., Inc. | | | |
| 1,125 | Term Loan - Second Lien, 0.00%, Maturing January 31, 2014 ⁽⁶⁾ | | 37,969 |
| Pilot Travel Centers, LLC | | | |
| 1,057 | Term Loan, 5.25%, Maturing June 30, 2016 | | 1,072,679 |
| Rover Acquisition Corp. | | | |
| 2,166 | Term Loan, 2.53%, Maturing October 25, 2013 | | 2,124,632 |
| Savers, Inc. | | | |
| 1,194 | Term Loan, 5.75%, Maturing March 11, 2016 | | 1,198,478 |
| Visant Corp. | | | |
| 1,100 | Term Loan, 7.00%, Maturing December 22, 2016 | | 1,110,771 |
| Vivarte | | | |
| EUR | 500 | Term Loan, Maturing March 9, 2015 ⁽⁷⁾ | 588,819 |
| EUR | 500 | Term Loan, Maturing March 8, 2016 ⁽⁷⁾ | 588,818 |
| Yankee Candle Company, Inc. (The) | | | |
| 2,421 | Term Loan, 2.26%, Maturing February 6, 2014 | | 2,350,172 |
| | | | \$ 17,406,289 |

Steel 0.3%

Niagara Corp.

| | | |
|-------|--|---------------------|
| 1,385 | Term Loan, 10.50%, Maturing June 29, 2014 ⁽³⁾⁽⁵⁾ | \$ 1,308,290 |
| | | \$ 1,308,290 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Borrower/Tranche Description | Value |
|---|---|---------------------|
| Surface Transport | 0.3% | |
| CEVA Group PLC U.S. | | |
| 857 | Term Loan, 3.26%, Maturing November 4, 2013 | \$ 770,110 |
| Swift Transportation Co., Inc. | | |
| 789 | Term Loan, 8.25%, Maturing May 9, 2014 | 777,241 |
| | | \$ 1,547,351 |
| Telecommunications | 4.5% | |
| Alaska Communications Systems Holdings, Inc. | | |
| 1,825 | Term Loan, 6.25%, Maturing October 15, 2016 | \$ 1,836,786 |
| Asurion Corp. | | |
| 1,375 | Term Loan, Maturing March 31, 2015 ⁽⁷⁾ | 1,352,227 |
| 3,861 | Term Loan, 3.28%, Maturing July 3, 2014 | 3,612,931 |
| CommScope, Inc. | | |
| 1,103 | Term Loan, 2.79%, Maturing December 26, 2014 | 1,103,206 |
| Intelsat Corp. | | |
| 2,415 | Term Loan, 2.79%, Maturing January 3, 2014 | 2,358,150 |
| 2,415 | Term Loan, 2.79%, Maturing January 3, 2014 | 2,358,150 |
| 2,416 | Term Loan, 2.79%, Maturing January 3, 2014 | 2,358,878 |
| Intelsat Subsidiary Holding Co. | | |
| 936 | Term Loan, 2.79%, Maturing July 3, 2013 | 913,478 |

Macquarie UK Broadcast Ventures, Ltd.

| | | | |
|-----|-----|--|-----------|
| GBP | 755 | Term Loan, 2.57%, Maturing December 1, 2014 | 1,020,302 |
|-----|-----|--|-----------|

NTelos, Inc.

| | | | |
|--|-------|--|-----------|
| | 1,485 | Term Loan, 5.75%, Maturing August 7, 2015 | 1,494,286 |
|--|-------|--|-----------|

Telesat Canada, Inc.

| | | | |
|--|----|--|--------|
| | 79 | Term Loan, 3.26%, Maturing October 31, 2014 | 77,431 |
|--|----|--|--------|

| | | | |
|--|-----|--|---------|
| | 916 | Term Loan, 3.26%, Maturing October 31, 2014 | 901,467 |
|--|-----|--|---------|

TowerCo Finance, LLC

| | | | |
|--|-----|---|---------|
| | 422 | Term Loan, 6.00%, Maturing November 24, 2014 | 426,734 |
|--|-----|---|---------|

Windstream Corp.

| | | | |
|--|-------|---|-----------|
| | 2,990 | Term Loan, 3.04%, Maturing December 17, 2015 | 3,000,591 |
|--|-------|---|-----------|

\$ 22,814,617

Utilities 3.5%

AEI Finance Holding, LLC

| | | | |
|--|-----|---|------------|
| | 270 | Revolving Loan, 3.29%, Maturing March 30, 2012 | \$ 262,038 |
|--|-----|---|------------|

| | | | |
|--|-------|--|-----------|
| | 1,769 | Term Loan, 3.29%, Maturing March 30, 2014 | 1,718,770 |
|--|-------|--|-----------|

Astoria Generating Co.

| | | | |
|--|-------|---|---------|
| | 1,000 | Term Loan - Second Lien, 4.04%, Maturing August 23, 2013 | 988,333 |
|--|-------|---|---------|

BRSP, LLC

| | | | |
|--|-----|--|---------|
| | 972 | Term Loan, 7.50%, Maturing June 4, 2014 | 976,643 |
|--|-----|--|---------|

Calpine Corp.

| | | | |
|--|-------|--|-----------|
| | 2,775 | Term Loan, 3.17%, Maturing March 29, 2014 | 2,766,010 |
|--|-------|--|-----------|

New Development Holdings, Inc.

| | | | |
|--|-----|--|-----------|
| | 998 | Term Loan, 7.00%, Maturing July 3, 2017 | 1,018,386 |
|--|-----|--|-----------|

NRG Energy, Inc.

| | | | |
|--|-----|--|---------|
| | 332 | Term Loan, 1.78%, Maturing February 1, 2013 | 325,021 |
|--|-----|--|---------|

| | | | |
|--|---|--|-----|
| | 1 | Term Loan, 3.64%, Maturing February 1, 2013 | 767 |
|--|---|--|-----|

| | | | |
|--|-------|---|-----------|
| | 1,249 | Term Loan, 3.54%, Maturing August 31, 2015 | 1,250,061 |
|--|-------|---|-----------|

| | | | |
|--|-------|--|-----------|
| | 2,045 | | 2,033,379 |
|--|-------|--|-----------|

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| | | |
|---|---|----------------------|
| | Term Loan, 3.54%, Maturing August 31, 2015 | |
| Pike Electric, Inc. | | |
| 110 | Term Loan, 2.06%, Maturing July 2, 2012 | 104,538 |
| 256 | Term Loan, 2.06%, Maturing December 10, 2012 | 242,882 |
| TXU Texas Competitive Electric Holdings Co., LLC | | |
| 990 | Term Loan, 3.76%, Maturing October 10, 2014 | 778,722 |
| 1,318 | Term Loan, 3.76%, Maturing October 10, 2014 | 1,037,810 |
| 3,774 | Term Loan, 3.92%, Maturing October 10, 2014 | 2,969,129 |
| Vulcan Energy Corp. | | |
| 1,084 | Term Loan, 5.50%, Maturing September 29, 2015 | 1,093,882 |
| | | \$ 17,566,371 |

Total Senior Floating-Rate Interests (identified cost \$720,940,483) **\$ 710,628,239**

Corporate Bonds & Notes 10.6%

Principal Amount*

(000 s omitted) **Security** **Value**

Aerospace and Defense 0.2%

International Lease Finance Corp., Sr. Notes

| | | |
|-----|-------------------------------|---------------------|
| 350 | 6.50%, 9/1/14 ⁽⁸⁾ | \$ 379,750 |
| 350 | 6.75%, 9/1/16 ⁽⁸⁾ | 383,250 |
| 350 | 7.125%, 9/1/18 ⁽⁸⁾ | 386,750 |
| | | \$ 1,149,750 |

Air Transport 0.0%

Continental Airlines

154 7.033%, 6/15/11 \$ 157,415

\$ 157,415

Automotive 0.2%

Allison Transmission, Inc.

665 11.25%, 11/1/15⁽³⁾⁽⁸⁾ \$ 724,019

American Axle & Manufacturing Holdings, Inc., Sr. Notes

115 9.25%, 1/15/17⁽⁸⁾ 130,956

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT'D

| Principal Amount* (000 \$ omitted) | Security | Value |
|--|--|---------------------|
| Automotive (continued) | | |
| | Commercial Vehicle Group, Inc., Sr. Notes | |
| 100 | 8.00%, 7/1/13 | \$ 91,500 |
| | | \$ 946,475 |
| Broadcast Radio and Television 0.5% | | |
| | Clear Channel Communications, Inc., Sr. Notes | |
| 1,000 | 6.25%, 3/15/11 | \$ 1,002,500 |
| | Entravision Communications, Sr. Notes | |
| 1,000 | 8.75%, 8/1/17 ⁽⁸⁾ | 1,076,250 |
| | XM Satellite Radio Holdings, Inc. | |
| 485 | 13.00%, 8/1/13 ⁽⁸⁾ | 580,787 |
| | | \$ 2,659,537 |
| Building and Development 0.5% | | |
| | Grohe Holding GmbH, Variable Rate | |
| EUR 2,000 | 3.86%, 1/15/14 ⁽¹⁰⁾ | \$ 2,651,379 |
| | | \$ 2,651,379 |

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Business Equipment and Services 0.5%

Brocade Communications Systems, Inc., Sr. Notes

| | | | |
|----|--------------------------------|----|--------|
| 30 | 6.625%, 1/15/18 ⁽⁸⁾ | \$ | 32,100 |
| 30 | 6.875%, 1/15/20 ⁽⁸⁾ | | 32,400 |

Education Management, LLC, Sr. Notes

| | | | |
|-----|---------------|--|---------|
| 390 | 8.75%, 6/1/14 | | 393,900 |
|-----|---------------|--|---------|

MediMedia USA, Inc., Sr. Sub. Notes

| | | | |
|-----|----------------------------------|--|---------|
| 170 | 11.375%, 11/15/14 ⁽⁸⁾ | | 147,050 |
|-----|----------------------------------|--|---------|

RSC Equipment Rental, Inc., Sr. Notes

| | | | |
|-----|--------------------------------|--|---------|
| 750 | 10.00%, 7/15/17 ⁽⁸⁾ | | 841,875 |
|-----|--------------------------------|--|---------|

SunGard Data Systems, Inc., Sr. Notes

| | | | |
|-----|---------------------------------|--|---------|
| 500 | 10.625%, 5/15/15 ⁽⁸⁾ | | 561,250 |
|-----|---------------------------------|--|---------|

Ticketmaster Entertainment, Inc.

| | | | |
|-----|----------------|--|---------|
| 185 | 10.75%, 8/1/16 | | 205,812 |
|-----|----------------|--|---------|

West Corp.

| | | | |
|-----|-----------------|--|---------|
| 240 | 9.50%, 10/15/14 | | 252,600 |
|-----|-----------------|--|---------|

\$ 2,466,987

Cable and Satellite Television 0.5%

Virgin Media Finance PLC, Sr. Notes

| | | | |
|-------|----------------|----|-----------|
| 2,500 | 6.50%, 1/15/18 | \$ | 2,693,750 |
|-------|----------------|----|-----------|

\$ 2,693,750

Chemicals and Plastics 0.1%

CII Carbon, LLC

| | | | |
|-----|----------------------------------|----|---------|
| 185 | 11.125%, 11/15/15 ⁽⁸⁾ | \$ | 197,488 |
|-----|----------------------------------|----|---------|

Reichhold Industries, Inc., Sr. Notes

| | | | |
|-----|-------------------------------|--|---------|
| 295 | 9.00%, 8/15/14 ⁽⁸⁾ | | 265,500 |
|-----|-------------------------------|--|---------|

Wellman Holdings, Inc., Sr. Sub. Notes

| | | | |
|-----|----------------------------------|--|---|
| 473 | 5.00%, 1/29/19 ⁽³⁾⁽⁵⁾ | | 0 |
|-----|----------------------------------|--|---|

\$ 462,988

Conglomerates 0.0%

RBS Global & Rexnord Corp.

155 11.75%, 8/1/16 \$ 167,400

\$ 167,400

Containers and Glass Products 0.4%

Berry Plastics Corp., Sr. Notes, Variable Rate

2,000 5.039%, 2/15/15 \$ 1,930,000

Intertape Polymer US, Inc., Sr. Sub. Notes

310 8.50%, 8/1/14 261,950

\$ 2,191,950

Cosmetics / Toiletries 0.3%

Revlon Consumer Products Corp.

1,415 9.75%, 11/15/15 \$ 1,482,212

\$ 1,482,212

Ecological Services and Equipment 0.1%

Environmental Systems Product Holdings, Inc., Jr. Notes

437 18.00%, 3/31/15⁽⁵⁾ \$ 371,309

\$ 371,309

Electronics / Electrical 0.2%

NXP BV/NXP Funding, LLC, Variable Rate

775 3.039%, 10/15/13 \$ 739,156

\$ 739,156

Equipment Leasing 0.0%

Hertz Corp.

5 8.875%, 1/1/14

\$ 5,163

\$ **5,163**

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Security | Value |
|---|--------------------------------|---------------------|
| Financial Intermediaries 0.8% | | |
| First Data Corp., Sr. Notes | | |
| 875 | 8.875%, 8/15/20 ⁽⁸⁾ | \$ 924,219 |
| Ford Motor Credit Co. | | |
| 2,250 | 12.00%, 5/15/15 | 2,886,637 |
| 175 | 8.00%, 12/15/16 | 205,183 |
| | | \$ 4,016,039 |
| Food Products 0.2% | | |
| Smithfield Foods, Inc., Sr. Notes | | |
| 1,000 | 10.00%, 7/15/14 ⁽⁸⁾ | \$ 1,157,500 |
| | | \$ 1,157,500 |
| Food Service 0.3% | | |
| NPC International, Inc., Sr. Sub. Notes | | |
| 245 | 9.50%, 5/1/14 | \$ 254,800 |
| U.S. Foodservice, Inc., Sr. Notes | | |
| 940 | 10.25%, 6/30/15 ⁽⁸⁾ | 982,300 |
| | | \$ 1,237,100 |

Food / Drug Retailers 0.1%

| | | |
|---|-----------|----------------|
| General Nutrition Center, Sr. Notes, Variable Rate | | |
| 215 5.75%, 3/15/14 ⁽³⁾ | \$ | 214,194 |
| General Nutrition Center, Sr. Sub. Notes | | |
| 385 10.75%, 3/15/15 | | 394,625 |
| | \$ | 608,819 |

Forest Products 0.0%

| | | |
|--|-----------|----------------|
| Verso Paper Holdings, LLC/Verso Paper, Inc. | | |
| 225 11.375%, 8/1/16 | \$ | 217,688 |
| | \$ | 217,688 |

Health Care 0.3%

| | | |
|---|-----------|------------------|
| Accellent, Inc., Sr. Notes | | |
| 135 8.375%, 2/1/17 ⁽⁸⁾ | \$ | 143,100 |
| DJO Finance, LLC/DJO Finance Corp. | | |
| 205 10.875%, 11/15/14 | | 225,756 |
| HCA, Inc. | | |
| 115 9.25%, 11/15/16 | | 124,775 |
| National Mentor Holdings, Inc. | | |
| 290 11.25%, 7/1/14 | | 299,425 |
| Res-Care, Inc., Sr. Notes | | |
| 110 7.75%, 10/15/13 | | 111,925 |
| US Oncology, Inc. | | |
| 515 10.75%, 8/15/14 | | 536,244 |
| | \$ | 1,441,225 |

Industrial Equipment 0.4%

| | | |
|---|----|---------|
| CEVA Group PLC, Sr. Notes | | |
| 165 11.50%, 4/1/18 ⁽⁸⁾ | \$ | 176,550 |
| Chart Industries, Inc., Sr. Sub. Notes | | |

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| | | |
|-------------------------------|---------------------------------|---------------------|
| 195 | 9.125%, 10/15/15 | 199,387 |
| ESCO Corp., Sr. Notes | | |
| 645 | 8.625%, 12/15/13 ⁽⁸⁾ | 667,575 |
| Terex Corp., Sr. Notes | | |
| 1,000 | 10.875%, 6/1/16 | 1,145,000 |
| | | \$ 2,188,512 |

Insurance 0.0~~0~~⁰

| | | |
|---------------------------------|-------------------------------|-------------------|
| Alliant Holdings I, Inc. | | |
| 100 | 11.00%, 5/1/15 ⁽⁸⁾ | \$ 105,625 |
| | | \$ 105,625 |

Leisure Goods / Activities / Movies 0.2%

| | | |
|---|-------------------------------------|-------------------|
| AMC Entertainment, Inc., Sr. Notes | | |
| 110 | 8.75%, 6/1/19 | \$ 118,387 |
| HRP Myrtle Beach Operations, LLC/HRP Myrtle Beach Capital Corp. | | |
| 195 | 12.50%, 4/1/13 ⁽⁵⁾⁽⁶⁾⁽⁸⁾ | 0 |
| HRP Myrtle Beach Operations, LLC/HRP Myrtle Beach Capital Corp., Variable Rate | | |
| 360 | 0.00%, 4/1/12 ⁽⁵⁾⁽⁶⁾⁽⁸⁾ | 0 |
| Marquee Holdings, Inc., Sr. Disc. Notes | | |
| 500 | 12.00%, 8/15/14 | 416,250 |
| Royal Caribbean Cruises, Sr. Notes | | |
| 95 | 7.00%, 6/15/13 | 103,313 |
| 35 | 6.875%, 12/1/13 | 37,800 |
| 25 | 7.25%, 6/15/16 | 27,375 |
| 50 | 7.25%, 3/15/18 | 54,625 |
| | | \$ 757,750 |

Lodging and Casinos 0.9%

| | | |
|--|------------------------------------|------------|
| Buffalo Thunder Development Authority | | |
| 480 | 9.375%, 12/15/14 ⁽⁶⁾⁽⁸⁾ | \$ 127,200 |
| CCM Merger, Inc. | | |

| | | |
|---|---------------------------------|---------|
| 85 | 8.00%, 8/1/13 ⁽⁸⁾ | 79,900 |
| Chukchansi EDA, Sr. Notes, Variable Rate | | |
| 280 | 4.123%, 11/15/12 ⁽⁸⁾ | 179,200 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Security | Value |
|--|------------------------------------|---------------------|
| Lodging and Casinos (continued) | | |
| Fontainebleau Las Vegas Casino, LLC | | |
| 485 | 10.25%, 6/15/15 ⁽⁶⁾⁽⁸⁾ | \$ 3,817 |
| Harrah s Operating Co., Inc., Sr. Notes | | |
| 1,500 | 11.25%, 6/1/17 | 1,665,000 |
| Inn of the Mountain Gods Resort & Casino, Sr. Notes | | |
| 500 | 12.00%, 11/15/10 ⁽⁶⁾ | 205,000 |
| Majestic HoldCo, LLC | | |
| 140 | 12.00%, 10/15/11 ⁽⁶⁾⁽⁸⁾ | 2,520 |
| Mohegan Tribal Gaming Authority, Sr. Sub. Notes | | |
| 140 | 8.00%, 4/1/12 | 122,675 |
| 215 | 7.125%, 8/15/14 | 148,350 |
| 230 | 6.875%, 2/15/15 | 159,275 |
| Peninsula Gaming, LLC | | |
| 1,000 | 10.75%, 8/15/17 | 1,070,000 |
| San Pasqual Casino | | |
| 110 | 8.00%, 9/15/13 ⁽⁸⁾ | 107,250 |
| Seminole Hard Rock Entertainment, Variable Rate | | |
| 175 | 2.792%, 3/15/14 ⁽⁸⁾ | 156,188 |
| Tunica-Biloxi Gaming Authority, Sr. Notes | | |
| 310 | 9.00%, 11/15/15 ⁽⁸⁾ | 283,262 |
| Waterford Gaming, LLC, Sr. Notes | | |
| 243 | 8.625%, 9/15/14 ⁽⁵⁾⁽⁸⁾ | 156,711 |
| | | \$ 4,466,348 |
| Nonferrous Metals / Minerals 0.3% | | |
| FMG Finance PTY, Ltd. | | |
| 675 | 10.625%, 9/1/16 ⁽⁸⁾ | \$ 999,000 |
| Teck Resources, Ltd., Sr. Notes | | |
| 335 | 10.75%, 5/15/19 | 428,599 |

\$ 1,427,599

Oil and Gas 0.8%

| | | |
|---|--------------------------------|---------------------|
| Cloud Peak Energy Resources, LLC / Cloud Peak Energy Finance Corp. | | |
| 1,000 | 8.25%, 12/15/17 ⁽⁸⁾ | \$ 1,092,500 |
| 335 | 8.50%, 12/15/19 ⁽⁸⁾ | 370,175 |
| Compton Petroleum Finance Corp. | | |
| 145 | 10.00%, 9/15/17 | 124,738 |
| Denbury Resources, Inc., Sr. Sub. Notes | | |
| 50 | 7.50%, 12/15/15 | 52,125 |
| El Paso Corp., Sr. Notes | | |
| 225 | 9.625%, 5/15/12 | 243,575 |
| Forbes Energy Services, Sr. Notes | | |
| 290 | 11.00%, 2/15/15 | 277,675 |
| McJunkin Red Man Corp., Sr. Notes | | |
| 1,000 | 9.50%, 12/15/16 ⁽⁸⁾ | 925,000 |
| OPTI Canada, Inc., Sr. Notes | | |
| 95 | 7.875%, 12/15/14 | 71,725 |
| 175 | 8.25%, 12/15/14 | 133,437 |
| Petroleum Development Corp., Sr. Notes | | |
| 115 | 12.00%, 2/15/18 | 129,375 |
| Petroplus Finance, Ltd. | | |
| 145 | 7.00%, 5/1/17 ⁽⁸⁾ | 133,400 |
| Quicksilver Resources, Inc., Sr. Notes | | |
| 125 | 11.75%, 1/1/16 | 145,000 |
| SESI, LLC, Sr. Notes | | |
| 60 | 6.875%, 6/1/14 | 60,900 |
| | | \$ 3,759,625 |

Publishing 0.2%

| | | |
|---------------------------------|-------------------------------------|---------------------|
| Laureate Education, Inc. | | |
| 1,000 | 10.00%, 8/15/15 ⁽⁸⁾ | \$ 1,030,000 |
| Nielsen Finance, LLC | | |
| 55 | 10.00%, 8/1/14 | 57,956 |
| 70 | 12.50%, 8/1/16 (0.00% until 8/1/11) | 71,663 |
| | | \$ 1,159,619 |

Rail Industries 0.3%

American Railcar Industry, Sr. Notes

| | | | |
|-----|---------------|----|---------|
| 175 | 7.50%, 3/1/14 | \$ | 178,063 |
|-----|---------------|----|---------|

Kansas City Southern Mexico, Sr. Notes

| | | | |
|-----|-----------------|--|---------|
| 280 | 7.625%, 12/1/13 | | 291,900 |
|-----|-----------------|--|---------|

| | | | |
|-----|----------------|--|---------|
| 100 | 7.375%, 6/1/14 | | 105,000 |
|-----|----------------|--|---------|

| | | | |
|-----|---------------|--|---------|
| 190 | 8.00%, 6/1/15 | | 206,150 |
|-----|---------------|--|---------|

| | | | |
|-----|------------------------------|--|---------|
| 500 | 8.00%, 2/1/18 ⁽⁸⁾ | | 548,164 |
|-----|------------------------------|--|---------|

\$ 1,329,277

Retailers (Except Food and Drug) 0.6%

Amscan Holdings, Inc., Sr. Sub. Notes

| | | | |
|-----|---------------|----|---------|
| 400 | 8.75%, 5/1/14 | \$ | 411,000 |
|-----|---------------|----|---------|

Neiman Marcus Group, Inc.

| | | | |
|-----|-----------------|--|---------|
| 739 | 9.00%, 10/15/15 | | 776,370 |
|-----|-----------------|--|---------|

Sally Holdings, LLC, Sr. Notes

| | | | |
|-----|-----------------|--|---------|
| 665 | 9.25%, 11/15/14 | | 702,406 |
|-----|-----------------|--|---------|

| | | | |
|----|------------------|--|--------|
| 20 | 10.50%, 11/15/16 | | 22,050 |
|----|------------------|--|--------|

Toys R Us

| | | | |
|-------|-----------------|--|-----------|
| 1,000 | 10.75%, 7/15/17 | | 1,147,500 |
|-------|-----------------|--|-----------|

\$ 3,059,326

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Principal Amount* (000 s omitted) | Security | Value |
|---|--------------------------------|---------------------|
| Steel | 0.0% | |
| RathGibson, Inc., Sr. Notes | | |
| 445 | 11.25%, 2/15/14 ⁽⁶⁾ | \$ 4,539 |
| | | \$ 4,539 |
| Surface Transport | 0.0% | |
| Teekay Corp., Sr. Notes | | |
| 50 | 8.50%, 1/15/20 | \$ 55,813 |
| | | \$ 55,813 |
| Telecommunications | 0.7% | |
| Avaya, Inc., Sr. Notes | | |
| 1,000 | 9.75%, 11/1/15 | \$ 1,011,250 |
| Clearwire Communications, LLC/Clearwire Finance, Inc., Sr. Notes | | |
| 500 | 12.00%, 12/1/15 ⁽⁸⁾ | 557,500 |
| Intelsat Bermuda, Ltd. | | |
| 900 | 11.25%, 6/15/16 | 984,375 |
| NII Capital Corp. | | |
| 335 | 10.00%, 8/15/16 | 381,481 |
| Telesat Canada/Telesat, LLC, Sr. Notes | | |
| 590 | 11.00%, 11/1/15 | 665,225 |
| | | \$ 3,599,831 |

Utilities 1.0%

Calpine Corp., Sr. Notes

4,725 7.50%, 2/15/21⁽⁸⁾ \$ 4,860,844

NGC Corp.

390 7.625%, 10/15/26 235,950

Reliant Energy, Inc., Sr. Notes

20 7.625%, 6/15/14 20,250

\$ 5,117,044

Total Corporate Bonds & Notes

(identified cost \$54,054,148)

\$ 53,854,750

Asset-Backed Securities 1.2%

Principal

Amount

(000 s omitted)

Security

Value

| | | | |
|----|-------|--|------------|
| \$ | 463 | Alzette European CLO SA, Series 2004-1A, Class E2, 6.792%, 12/15/20 ⁽¹¹⁾ | \$ 301,687 |
| | 589 | Avalon Capital Ltd. 3, Series 1A, Class D, 2.279%, 2/24/19 ⁽⁸⁾⁽¹¹⁾ | 378,453 |
| | 753 | Babson Ltd., Series 2005-1A, Class C1, 2.239%, 4/15/19 ⁽⁸⁾⁽¹¹⁾ | 453,585 |
| | 1,007 | Bryant Park CDO Ltd., Series 2005-1A, Class C, 2.339%, 1/15/19 ⁽⁸⁾⁽¹¹⁾ | 513,245 |
| | 1,000 | Carlyle High Yield Partners, Series 2004-6A, Class C, 2.854%, 8/11/16 ⁽⁸⁾⁽¹¹⁾ | 706,057 |
| | 985 | Centurion CDO 8 Ltd., Series 2005-8A, Class D, 5.793%, 3/8/17 ⁽¹¹⁾ | 637,926 |
| | 750 | Centurion CDO 9 Ltd., Series 2005-9A, Class D1, 5.039%, 7/17/19 ⁽¹¹⁾ | 438,589 |
| | 789 | Comstock Funding Ltd., Series 2006-1A, Class D, 4.549%, 5/30/20 ⁽⁸⁾⁽¹¹⁾ | 429,840 |
| | 1,500 | Dryden Leveraged Loan, Series 2004-6A, Class C1, 3.025%, 7/30/16 ⁽⁸⁾⁽¹¹⁾ | 1,050,660 |
| | 1,000 | First CLO Ltd., Series 2004-1A1, Class C, 2.793%, 7/27/16 ⁽⁸⁾⁽¹¹⁾ | 728,923 |

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| | | |
|-------|--|---------|
| 1,000 | Schiller Park CLO Ltd., Series 2007-1A, Class D, 2.747%, 4/25/21 ⁽⁸⁾⁽¹¹⁾ | 602,236 |
|-------|--|---------|

| | |
|--|---------------------|
| Total Asset-Backed Securities (identified cost \$9,615,732) | \$ 6,241,201 |
|--|---------------------|

Common Stocks 1.5%

| Shares | Security | Value |
|--------|----------|-------|
|--------|----------|-------|

Aerospace and Defense 0.0%

| | | |
|--------|--|------------|
| 12,734 | ACTS Aero Technical Support & Service, Inc. ⁽¹²⁾⁽¹³⁾ | \$ 210,109 |
|--------|--|------------|

\$ 210,109

Air Transport 0.0%

| | | |
|-------|---------------------------------------|-----------|
| 1,535 | Delta Air Lines, Inc. ⁽¹²⁾ | \$ 21,321 |
|-------|---------------------------------------|-----------|

\$ 21,321

Automotive 0.2%

| | | |
|--------|---|------------|
| 18,702 | Dayco Products, LLC ⁽¹²⁾⁽¹³⁾ | \$ 827,563 |
| 44,747 | Hayes Lemmerz International, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | 400,486 |

\$ 1,228,049

Building and Development 0.1%

| | | | |
|-----|--|-----------|----------------|
| 253 | Panolam Holdings Co. ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾ | \$ | 201,163 |
| 508 | United Subcontractors, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | | 44,631 |
| | | \$ | 245,794 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

| Shares | Security | Value |
|--|--|-------------------|
| Chemicals and Plastics 0.0% | | |
| 438 | Wellman Holdings, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | \$ 0 |
| | | \$ 0 |
| Diversified Manufacturing 0.0% | | |
| 323,008 | MEGA Brands, Inc. ⁽¹²⁾ | \$ 183,084 |
| | | \$ 183,084 |
| Ecological Services and Equipment 0.0% | | |
| 6,211 | Environmental Systems Products Holdings, Inc. ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾ | \$ 54,905 |
| | | \$ 54,905 |
| Food Service 0.0% | | |
| 23,029 | Buffets, Inc. ⁽¹²⁾ | \$ 97,873 |
| | | \$ 97,873 |

Lodging and Casinos 0.1%

| | | | |
|--------|---|-----------|----------------|
| 71 | Greektown Superholdings, Inc. ⁽¹²⁾ | \$ | 5,538 |
| 35,670 | Tropicana Entertainment, Inc. ⁽¹²⁾⁽¹³⁾ | | 510,527 |
| | | \$ | 516,065 |

Nonferrous Metals / Minerals 0.1%

| | | | |
|-----|---|-----------|----------------|
| 701 | Euramax International, Inc. ⁽¹²⁾⁽¹³⁾ | \$ | 220,878 |
| | | \$ | 220,878 |

Oil and Gas 0.0%

| | | | |
|-------|--------------------------------|-----------|---------------|
| 1,397 | SemGroup Corp. ⁽¹²⁾ | \$ | 32,550 |
| | | \$ | 32,550 |

Publishing 0.8%

| | | | |
|--------|--|-----------|------------------|
| 482 | Dex One Corp. ⁽¹²⁾ | \$ | 3,379 |
| 3,990 | Ion Media Networks, Inc. ⁽¹²⁾⁽¹³⁾ | | 1,665,825 |
| 10,718 | MediaNews Group, Inc. ⁽¹²⁾⁽¹³⁾ | | 192,922 |
| 2,002 | Philadelphia Newspaper, LLC ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | | 135,035 |
| 87,921 | Reader's Digest Association, Inc. (The) ⁽¹²⁾⁽¹³⁾ | | 1,833,153 |
| 2,290 | Source Interlink Companies, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | | 52,487 |
| 9,554 | SuperMedia, Inc. ⁽¹²⁾ | | 62,865 |
| | | \$ | 3,945,666 |

Steel 0.2%

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| | | | |
|--------|--|----|----------------|
| 23,138 | KNIA Holdings, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾ | \$ | 297,324 |
| 19,800 | RathGibson Acquisition Co., LLC ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾ | | 464,112 |
| | | \$ | 761,436 |

Total Common Stocks
(identified cost \$5,613,103) \$ **7,517,730**

Preferred Stocks 0.1%

| Shares | Security | Value |
|--------|----------|-------|
|--------|----------|-------|

Ecological Services and Equipment 0.1%

| | | | |
|-------|--|----|----------------|
| 2,845 | Environmental Systems Products Holdings, Inc., Series A ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾ | \$ | 328,797 |
| | | \$ | 328,797 |

Total Preferred Stocks
(identified cost \$49,788) \$ **328,797**

Warrants 0.0%

| Shares | Security | Value |
|--------|----------|-------|
|--------|----------|-------|

Oil and Gas 0.0%

| | | | |
|-------|--|----|--------------|
| 1,470 | SemGroup Corp., Expires 11/30/14 ⁽¹²⁾ | \$ | 9,004 |
| | | \$ | 9,004 |

Publishing 0.0%

| | | | |
|-------|---|----|---|
| 1,450 | Reader s Digest Association, Inc. (The), Expires 2/15/17 ⁽⁵⁾ (12)(13) | \$ | 0 |
|-------|---|----|---|

| | | | |
|--|--|----|---|
| | | \$ | 0 |
|--|--|----|---|

| | | | |
|--|--|----|--------------|
| Total Warrants (identified cost \$15) | | \$ | 9,004 |
|--|--|----|--------------|

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

PORTFOLIO OF INVESTMENTS CONT D

Miscellaneous 0.0%

| Shares | Security | Value |
|--|---|------------------|
| Air Transport 0.0% | | |
| 1,000,000 | Delta Air Lines, Inc., Escrow Certificate ⁽¹²⁾ | \$ 31,260 |
| | | \$ 31,260 |
| Total Miscellaneous (identified cost \$0) | | \$ 31,260 |

Short-Term Investments 3.1%

| Interest/ Principal Amount (000 s omitted) | Description | Value |
|--|---|-----------------------|
| \$ 11,729 | Eaton Vance Cash Reserves Fund, LLC, 0.22% ⁽¹⁵⁾⁽¹⁶⁾ | \$ 11,728,652 |
| 4,082 | State Street Bank and Trust Euro Time Deposit, 0.01%, 11/1/10 | 4,081,938 |
| Total Short-Term Investments (identified cost \$15,810,590) | | \$ 15,810,590 |
| Total Investments 157.2% (identified cost \$806,083,859) | | \$ 794,421,571 |

| | | |
|---|---------|------------------|
| Less Unfunded Loan Commitments | (0.3)% | \$ (1,583,950) |
| Net Investments | 156.9% | |
| (identified cost \$804,499,909) | | \$ 792,837,621 |
| Other Assets, Less Liabilities | (30.9)% | \$ (156,324,099) |
| Auction Preferred Shares Plus Cumulative Unpaid Dividends | (26.0)% | \$ (131,316,151) |
| Net Assets Applicable to Common Shares | 100.0% | \$ 505,197,371 |

The percentage shown for each investment category in the Portfolio of Investments is based on net assets applicable to common shares.

EUR - Euro

GBP - British Pound Sterling

* In U.S. dollars unless otherwise indicated.

- (1) Senior floating-rate interests (Senior Loans) often require prepayments from excess cash flows or permit the borrowers to repay at their election. The degree to which borrowers repay, whether as a contractual requirement or at their election, cannot be predicted with accuracy. As a result, the actual remaining maturity may be substantially less than the stated maturities

shown. However, Senior Loans will have an expected average life of approximately two to four years. The stated interest rate represents the weighted average interest rate of all contracts within the senior loan facility and includes commitment fees on unfunded loan commitments, if any. Senior Loans typically have rates of interest which are redetermined either daily, monthly, quarterly or semi-annually by reference to a base lending rate, plus a premium. These base lending rates are primarily the London Interbank Offered Rate (LIBOR) and secondarily, the prime rate offered by one or more major United States banks (the Prime Rate) and the certificate of deposit (CD) rate or other base lending rates used by commercial lenders.

- (2) Unfunded or partially unfunded loan commitments. See Note 1G for description.

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- (3) Represents a payment-in-kind security which may pay all or a portion of interest/dividends in additional par/shares.
- (4) Defaulted matured security. Interest rate has been adjusted to reflect non-accrual status.
- (5) Security valued at fair value using methods determined in good faith by or at the direction of the Trustees.
- (6) Currently the issuer is in default with respect to interest payments. Interest rate has been adjusted to reflect non-accrual status.
- (7) This Senior Loan will settle after October 31, 2010, at which time the interest rate will be determined.
- (8) Security exempt from registration pursuant to Rule 144A under the Securities Act of 1933. These securities may be sold in certain transactions (normally to qualified institutional buyers) and remain exempt from registration. At October 31, 2010, the aggregate value of these securities is \$26,371,924 or 5.2% of the Trust's net assets applicable to common shares.
- (9) Amount is less than 0.05%.
- (10) Security exempt from registration under Regulation S of the Securities Act of 1933, which exempts from registration securities offered and sold outside the United States. Security may not be offered or sold in 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.
- (11) Variable rate security. The stated interest rate represents the rate in effect at October 31, 2010.
- (12) Non-income producing security.
- (13) Security was acquired in connection with a restructuring of a Senior Loan and may be subject to restrictions on resale.
- (14) Restricted security (see Note 8).
- (15) Affiliated investment company available to Eaton Vance portfolios and funds which invests in high quality, U.S. dollar denominated money market instruments. The rate shown is the annualized seven-day yield as of October 31, 2010.
- (16) Net income allocated from the investment in Eaton Vance Cash Reserves Fund, LLC and Cash Management Portfolio, an affiliated investment company, for the year ended October 31, 2010 was \$20,984 and \$0, respectively.

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FINANCIAL STATEMENTS

Statement of Assets and Liabilities

As of October 31, 2010

Assets

| | |
|--|-----------------------|
| Unaffiliated investments, at value (identified cost, \$792,771,257) | \$ 781,108,969 |
| Affiliated investment, at value (identified cost, \$11,728,652) | 11,728,652 |
| Foreign currency, at value (identified cost, \$1,237,607) | 1,239,434 |
| Interest and dividends receivable | 4,019,737 |
| Interest receivable from affiliated investment | 2,860 |
| Receivable for investments sold | 6,174,963 |
| Receivable for open forward foreign currency exchange contracts | 13,498 |
| Receivable from the transfer agent | 95,902 |
| Prepaid expenses | 97,453 |
| Other assets | 8,603 |
| Total assets | \$ 804,490,071 |

Liabilities

| | |
|---|-----------------------|
| Notes payable | \$ 150,000,000 |
| Payable for investments purchased | 16,597,426 |
| Payable for open forward foreign currency exchange contracts | 529,328 |
| Payable to affiliates: | |
| Investment adviser fee | 431,075 |
| Trustees fees | 2,315 |
| Accrued expenses | 416,405 |
| Total liabilities | \$ 167,976,549 |

\$ 131,316,151

Auction preferred shares (5,252 shares outstanding) at liquidation value plus cumulative unpaid dividends

Net assets applicable to common shares **\$ 505,197,371**

Sources of Net Assets

| | |
|--|---------------|
| Common shares, \$0.01 par value, unlimited number of shares authorized, 33,715,864 shares issued and outstanding | \$ 337,159 |
| Additional paid-in capital | 636,662,246 |
| Accumulated net realized loss | (123,533,710) |
| Accumulated undistributed net investment income | 3,963,096 |
| Net unrealized depreciation | (12,231,420) |

Net assets applicable to common shares **\$ 505,197,371**

Net Asset Value Per Common Share

(\$505,197,371 ÷ 33,715,864 common shares issued and outstanding) **\$ 14.98**

Statement of Operations

**For the Year Ended
October 31, 2010**

Investment Income

| | |
|---|---------------|
| Interest | \$ 42,791,528 |
| Dividends | 1,135 |
| Interest income allocated from affiliated investments | 30,898 |
| Expenses allocated from affiliated investments | (9,914) |

Total investment income **\$ 42,813,647**

Expenses

| | |
|---|--------------|
| Investment adviser fee | \$ 5,741,333 |
| Trustees' fees and expenses | 27,149 |
| Custodian fee | 287,069 |
| Transfer and dividend disbursing agent fees | 17,590 |
| Legal and accounting services | 203,088 |
| Printing and postage | 103,905 |
| Interest expense and fees | 2,376,873 |
| Preferred shares service fee | 199,914 |
| Miscellaneous | 141,588 |

Total expenses \$ **9,098,509**

Deduct

| | |
|-------------------------------------|------------|
| Reduction of investment adviser fee | \$ 793,832 |
| Reduction of custodian fee | 30 |

Total expense reductions \$ **793,862**

Net expenses \$ **8,304,647**

Net investment income \$ **34,509,000**

Realized and Unrealized Gain (Loss)

| | |
|--|-----------------|
| Net realized gain (loss) | |
| Investment transactions | \$ (18,676,548) |
| Investment transactions allocated from affiliated investments | (6,418) |
| Foreign currency and forward foreign currency exchange contract transactions | 2,904,348 |

Net realized loss \$ **(15,778,618)**

| | |
|--|----------------------|
| Change in unrealized appreciation (depreciation) | |
| Investments | \$ 62,752,722 |
| Foreign currency and forward foreign currency exchange contracts | (548,811) |
| Net change in unrealized appreciation (depreciation) | \$ 62,203,911 |
| Net realized and unrealized gain | \$ 46,425,293 |
| Distributions to preferred shareholders | |
| From net investment income | \$ (384,607) |
| Net increase in net assets from operations | \$ 80,549,686 |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FINANCIAL STATEMENTS CONT D

Statements of Changes in Net Assets

| Increase (Decrease) in Net Assets | Year Ended October 31, 2010 | Year Ended October 31, 2009 |
|---|--|--|
| From operations | | |
| Net investment income | \$ 34,509,000 | \$ 32,886,072 |
| Net realized loss from investment, foreign currency and forward foreign currency exchange contract transactions and extinguishment of debt | (15,778,618) | (51,904,952) |
| Net change in unrealized appreciation (depreciation) from investments, swap contracts, foreign currency and forward foreign currency exchange contracts | 62,203,911 | 166,984,060 |
| Distributions to preferred shareholders | | |
| From net investment income | (384,607) | (947,100) |
| Net increase in net assets from operations | \$ 80,549,686 | \$ 147,018,080 |
| Distributions to common shareholders | | |
| From net investment income | \$ (37,305,680) | \$ (29,016,435) |
| Total distributions to common shareholders | \$ (37,305,680) | \$ (29,016,435) |
| Capital share transactions | | |
| Reinvestment of distributions to common shareholders | \$ 1,253,537 | \$ 240,983 |
| | \$ 1,253,537 | \$ 240,983 |

**Net increase in net assets from
capital share transactions**

| | | | | |
|-----------------------------------|-----------|-------------------|-----------|--------------------|
| Net increase in net assets | \$ | 44,497,543 | \$ | 118,242,628 |
|-----------------------------------|-----------|-------------------|-----------|--------------------|

Net Assets Applicable to
Common Shares

| | | | | |
|----------------------|----|-------------|----|-------------|
| At beginning of year | \$ | 460,699,828 | \$ | 342,457,200 |
|----------------------|----|-------------|----|-------------|

| | | | | |
|-----------------------|-----------|--------------------|-----------|--------------------|
| At end of year | \$ | 505,197,371 | \$ | 460,699,828 |
|-----------------------|-----------|--------------------|-----------|--------------------|

Accumulated undistributed
net investment income
included in net assets
applicable to common shares

| | | | | |
|-----------------------|-----------|------------------|-----------|------------------|
| At end of year | \$ | 3,963,096 | \$ | 4,480,562 |
|-----------------------|-----------|------------------|-----------|------------------|

Statement of Cash Flows

| Cash Flows From Operating Activities | Year Ended October 31, 2010 | |
|--|--|---------------|
| Net increase in net assets from operations | \$ | 80,549,686 |
| Distributions to preferred shareholders | | 384,607 |
| Net increase in net assets from operations excluding distributions to preferred shareholders | \$ | 80,934,293 |
| Adjustments to reconcile net increase in net assets from operations to net cash provided by operating activities: | | |
| Investments purchased | | (269,709,505) |
| Investments sold and principal repayments | | 281,572,648 |
| Decrease in short-term investments, net | | 4,640,550 |
| Net amortization/accretion of premium (discount) | | (7,826,900) |
| Amortization of structuring fee on notes payable | | 226,969 |
| Increase in interest and dividends receivable | | (413,891) |

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| | |
|---|----------------------|
| Increase in interest receivable from affiliated investment | (2,860) |
| Increase in receivable for investments sold | (1,842,783) |
| Decrease in receivable for open forward foreign currency exchange contracts | 114,971 |
| Increase in receivable from the transfer agent | (95,902) |
| Decrease in prepaid expenses | 13,718 |
| Increase in other assets | (3,471) |
| Decrease in payable for investments purchased | (7,752,060) |
| Increase in payable for open forward foreign currency exchange contracts | 447,908 |
| Increase in payable to affiliate for investment adviser fee | 86,843 |
| Increase in payable to affiliate for Trustees fees | 592 |
| Decrease in accrued expenses | 28,732 |
| Decrease in unfunded loan commitments | (444,490) |
| Net change in unrealized (appreciation) depreciation of investments | (62,752,722) |
| Net realized (gain) loss on investments | 18,676,548 |
| Net cash provided by operating activities | \$ 35,899,188 |

Cash Flows From Financing Activities

| | |
|---|------------------------|
| Distributions paid to common shareholders, net of reinvestments | \$ (36,052,143) |
| Cash distributions to preferred shareholders | (381,478) |
| Payment of structuring fee on notes payable | (225,000) |
| Net cash used in financing activities | \$ (36,658,621) |
| Net decrease in cash* | \$ (759,433) |
| Cash at beginning of year⁽¹⁾ | \$ 1,998,867 |
| Cash at end of year⁽¹⁾ | \$ 1,239,434 |

Supplemental disclosure of cash flow
information:

| | | |
|---|----|-----------|
| Reinvestment of dividends and distributions | \$ | 1,253,537 |
| Cash paid for interest and fees on borrowings | | 2,360,027 |

⁽¹⁾ Balance includes foreign currency, at value.

* Includes net change in unrealized appreciation (depreciation) on foreign currency of \$8,987.

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FINANCIAL STATEMENTS CONT D

Financial Highlights

Selected data for a common share outstanding during the periods stated

| | Year Ended October 31, | | | | |
|---|------------------------|-------------------|-------------------|-------------------|-------------------|
| | 2010 | 2009 | 2008 | 2007 | 2006 |
| Net asset value Beginning of year (Common shares) | \$ 13.700 | \$ 10.190 | \$ 17.800 | \$ 18.690 | \$ 18.740 |
| Income (Loss) From Operations | | | | | |
| Net investment income ⁽¹⁾ | \$ 1.025 | \$ 0.978 | \$ 1.665 | \$ 2.177 | \$ 2.053 |
| Net realized and unrealized gain (loss) | 1.374 | 3.423 | (7.647) | (0.861) | (0.026) |
| Distributions to preferred shareholders | | | | | |
| From net investment income ⁽¹⁾ | (0.011) | (0.028) | (0.367) | (0.634) | (0.558) |
| Total income (loss) from operations | \$ 2.388 | \$ 4.373 | \$ (6.349) | \$ 0.682 | \$ 1.469 |
| Less Distributions to Common Shareholders | | | | | |
| From net investment income | \$ (1.108) | \$ (0.863) | \$ (1.142) | \$ (1.542) | \$ (1.519) |
| Tax return of capital | | | (0.119) | (0.030) | |
| Total distributions to common shareholders | \$ (1.108) | \$ (0.863) | \$ (1.261) | \$ (1.572) | \$ (1.519) |

| | | | | | | |
|--------------------------------------|--------------------|------------------|------------------|------------------|------------------|------------------|
| Net asset value | End of year | | | | | |
| (Common shares) | | \$ 14.980 | \$ 13.700 | \$ 10.190 | \$ 17.800 | \$ 18.690 |
| Market value | End of year | | | | | |
| (Common shares) | | \$ 15.640 | \$ 12.980 | \$ 9.480 | \$ 16.200 | \$ 18.240 |
| Total Investment Return on | | | | | | |
| Net Asset Value⁽²⁾ | | 17.93% | 46.90% | (37.33)% | 3.93% | 8.47% |
| Total Investment Return on | | | | | | |
| Market Value⁽²⁾ | | 29.96% | 49.61% | (35.90)% | (3.13)% | 15.27% |

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FINANCIAL STATEMENTS CONT D

Financial Highlights

Selected data for a common share outstanding during the periods stated

| | Year Ended October 31, | | | | |
|--|-------------------------------|-------------|-------------|-------------|-------------|
| | 2010 | 2009 | 2008 | 2007 | 2006 |
| Ratios/Supplemental Data | | | | | |
| Net assets applicable to common shares, end of year (000 s omitted) | \$ 505,197 | \$ 460,700 | \$ 342,457 | \$ 598,214 | \$ 625,925 |
| Ratios (as a percentage of average daily net assets applicable to common shares): ⁽³⁾ | | | | | |
| Expenses excluding interest and fees ⁽⁴⁾ | 1.22% | 1.21% | 1.18% | 1.18% | 1.17% |
| Interest and fee expense ⁽⁵⁾ | 0.49% | 1.15% | 0.99% | | |
| Total expenses | 1.71% | 2.36% | 2.17% | 1.18% | 1.17% |
| Net investment income | 7.11% | 9.21% | 10.66% | 11.79% | 10.95% |
| Portfolio Turnover | 36% | 42% | 21% | 58% | 51% |

The ratios reported above are based on net assets applicable solely to common shares. The ratios based on net assets, including amounts related to preferred shares and borrowings, are as follows:

| | | | | | |
|---|-------|-------|-------|-------|-------|
| Ratios (as a percentage of average daily net assets applicable to common shares plus preferred shares and borrowings): ⁽³⁾ | | | | | |
| Expenses excluding interest and fees ⁽⁴⁾ | 0.77% | 0.74% | 0.68% | 0.72% | 0.72% |
| Interest and fee expense ⁽⁵⁾ | 0.31% | 0.70% | 0.57% | | |
| Total expenses | 1.08% | 1.44% | 1.25% | 0.72% | 0.72% |
| Net investment income | 4.50% | 5.63% | 6.12% | 7.21% | 6.73% |

Senior Securities:

| | | | | | |
|--|------------|------------|------------|----|----|
| Total notes payable outstanding (in 000 s) | \$ 150,000 | \$ 150,000 | \$ 154,200 | \$ | \$ |
|--|------------|------------|------------|----|----|

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| | | | | | |
|---|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Asset coverage per \$1,000 of notes payable ⁽⁶⁾ | \$ 5,243 | \$ 4,947 | \$ 4,074 | \$ | \$ |
| Total preferred shares outstanding | 5,252 | 5,252 | 5,252 | 15,760 | 15,760 |
| Asset coverage per preferred share | \$ 69,900 ⁽⁷⁾ | \$ 65,945 ⁽⁷⁾ | \$ 55,060 ⁽⁷⁾ | \$ 63,001 ⁽⁸⁾ | \$ 64,753 ⁽⁸⁾ |
| Involuntary liquidation preference per preferred share ⁽⁹⁾ | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 |
| Approximate market value per preferred share ⁽⁹⁾ | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 | \$ 25,000 |

- (1) Computed using average shares outstanding.
- (2) Returns are historical and are calculated by determining the percentage change in net asset value or market value with all distributions reinvested.
- (3) Ratios do not reflect the effect of dividend payments to preferred shareholders.
- (4) Excludes the effect of custody fee credits, if any, of less than 0.005%.
- (5) Interest and fee expense relates to the notes payable incurred to partially redeem the Trust's APS (see Note 10).
- (6) Calculated by subtracting the Trust's total liabilities (not including the notes payable and preferred shares) from the Trust's total assets, and dividing the result by the notes payable balance in thousands.
- (7) Calculated by subtracting the Trust's total liabilities (not including the notes payables and preferred shares) from the Trust's total assets, dividing the result by the sum of the value of the notes payables and liquidation value of preferred shares, and multiplying the result by the liquidation value of one preferred share. Such amount equates to 280%, 264% and 220% at October 31, 2010, October 31, 2009 and October 31, 2008, respectively.
- (8) Calculated by subtracting the Trust's total liabilities (not including the preferred shares) from the Trust's total assets, and dividing the result by the number of preferred shares outstanding.
- (9) Plus accumulated and unpaid dividends.

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS

1 Significant Accounting Policies

Eaton Vance Senior Floating-Rate Trust (the Trust) is a Massachusetts business trust registered under the Investment Company Act of 1940, as amended (the 1940 Act), as a diversified, closed-end management investment company. The Trust's primary investment objective is to provide a high level of current income. The Trust may, as a secondary objective, also seek preservation of capital to the extent consistent with its primary objective.

The following is a summary of significant accounting policies of the Trust. The policies are in conformity with accounting principles generally accepted in the United States of America.

A Investment Valuation Interests in senior floating-rate loans (Senior Loans) for which reliable market quotations are readily available are valued generally at the average mean of bid and ask quotations obtained from a third party pricing service. Other Senior Loans are valued at fair value by the investment adviser under procedures approved by the Trustees. In fair valuing a Senior Loan, the investment adviser utilizes one or more of the valuation techniques described in (i) through (iii) below to assess the likelihood that the borrower will make a full repayment of the loan underlying such Senior Loan relative to yields on other Senior Loans issued by companies of comparable credit quality. If the investment adviser believes that there is a reasonable likelihood of full repayment, the investment adviser will determine fair value using a matrix pricing approach that considers the yield on the Senior Loan. If the investment adviser believes there is not a reasonable likelihood of full repayment, the investment adviser will determine fair value using analyses that include, but are not limited to: (i) a comparison of the value of the borrower's outstanding equity and debt to that of comparable public companies; (ii) a discounted cash flow analysis; or (iii) when the investment adviser believes it is likely that a borrower will be liquidated or sold, an analysis of the terms of such liquidation or sale. In certain cases, the investment adviser will use a combination of analytical methods to determine fair value, such as when only a portion of a borrower's assets are likely to be sold. In conducting its assessment and analyses for purposes of determining fair value of a Senior Loan, the investment adviser will use its discretion and judgment in considering and appraising relevant factors. Fair value determinations are made by the portfolio managers of the Trust based on information available to such managers. The portfolio managers of other funds managed by the investment adviser that invest in Senior Loans may not possess the same information about a Senior Loan borrower as the portfolio managers of the Trust. At times, the fair value of a Senior Loan determined by the portfolio managers of other funds managed by the investment adviser that invest in Senior Loans may vary from the fair value of the same Senior Loan determined by the portfolio managers of the Trust. The fair value of each Senior Loan is periodically reviewed and approved by the investment adviser's Valuation Committee and by the Trustees based upon procedures approved by the Trustees. Junior Loans are valued in the same manner as Senior Loans.

Debt obligations (including short-term obligations with a remaining maturity of more than sixty days) are generally valued on the basis of valuations provided by third party pricing services, as derived from such services' pricing models. Inputs to the models may include, but are not limited to, reported trades, executable bid and asked prices, broker/dealer quotations, prices or yields of securities with similar characteristics, benchmark curves or information pertaining to the issuer, as well as industry and economic events. The pricing services may use a matrix approach, which considers information regarding securities with similar characteristics to determine the valuation for a security. Short-term debt securities purchased with a remaining maturity of sixty days or less are generally valued at amortized cost, which approximates market value.

Equity securities (including common shares of closed-end investment companies) listed on a U.S. securities exchange generally are valued at the last sale or closing price on the day of valuation or, if no sales took place on such date, at

the mean between the closing bid and asked prices therefore on the exchange where such securities are principally traded. Equity securities listed on the NASDAQ Global or Global Select Market generally are valued at the NASDAQ official closing price. Unlisted or listed securities for which closing sales prices or closing quotations are not available are valued at the mean between the latest available bid and asked prices or, in the case of preferred equity securities that are not listed or traded in the over-the-counter market, by a third party pricing service that will use various techniques that consider factors including, but not limited to, prices or yields of securities with similar characteristics, benchmark yields, broker/dealer quotes, quotes of underlying common stock, issuer spreads, as well as industry and economic events. Forward foreign currency exchange contracts are generally valued at the mean of the average bid and average asked prices that are reported by currency dealers to a third party pricing service at the valuation time. Such third party pricing service valuations are supplied for specific settlement periods and the Trust's forward foreign currency exchange contracts are valued at an interpolated rate between the closest preceding and subsequent settlement period reported by the third party pricing service. Credit default swaps are normally valued using valuations provided by a third party pricing service. The pricing services employ electronic data processing techniques to determine the present value based on credit spread quotations obtained from broker/dealers and expected default recovery rates determined by the pricing service using proprietary

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

models. Foreign securities and currencies are valued in U.S. dollars, based on foreign currency exchange rate quotations supplied by a third party pricing service. The pricing service uses a proprietary model to determine the exchange rate. Inputs to the model include reported trades and implied bid/ask spreads. Investments for which valuations or market quotations are not readily available or are deemed unreliable are valued at fair value using methods determined in good faith by or at the direction of the Trustees of the Trust in a manner that most fairly reflects the security's value, or the amount that the Trust might reasonably expect to receive for the security upon its current sale in the ordinary course. Each such determination is based on a consideration of all relevant factors, which are likely to vary from one pricing context to another. These factors may include, but are not limited to, the type of security, the existence of any contractual restrictions on the security's disposition, the price and extent of public trading in similar securities of the issuer or of comparable companies or entities, quotations or relevant information obtained from broker-dealers or other market participants, information obtained from the issuer, analysts, and/or the appropriate stock exchange (for exchange-traded securities), an analysis of the company's or entity's financial condition, and an evaluation of the forces that influence the issuer and the market(s) in which the security is purchased and sold.

The Trust may invest in Eaton Vance Cash Reserves Fund, LLC (Cash Reserves Fund), an affiliated investment company managed by Eaton Vance Management (EVM). Cash Reserves Fund generally values its investment securities utilizing the amortized cost valuation technique in accordance with Rule 2a-7 under the 1940 Act. This technique involves initially valuing a portfolio security at its cost and thereafter assuming a constant amortization to maturity of any discount or premium. If amortized cost is determined not to approximate fair value, Cash Reserves Fund may value its investment securities in the same manner as debt obligations described above.

B Investment Transactions Investment transactions for financial statement purposes are accounted for on a trade date basis. Realized gains and losses on investments sold are determined on the basis of identified cost.

C Income Interest income is recorded on the basis of interest accrued, adjusted for amortization of premium or accretion of discount. Fees associated with loan amendments are recognized immediately. Dividend income is recorded on the ex-dividend date for dividends received in cash and/or securities.

D Federal Taxes The Trust's policy is to comply with the provisions of the Internal Revenue Code applicable to regulated investment companies and to distribute to shareholders each year substantially all of its net investment income, and all or substantially all of its net realized capital gains. Accordingly, no provision for federal income or excise tax is necessary.

At October 31, 2010, the Trust, for federal income tax purposes, had a capital loss carryforward of \$123,035,721 which will reduce its taxable income arising from future net realized gains on investment transactions, if any, to the extent permitted by the Internal Revenue Code, and thus will reduce the amount of distributions to shareholders, which would otherwise be necessary to relieve the Trust of any liability for federal income or excise tax. Such capital loss carryforward will expire on October 31, 2012 (\$5,860,075), October 31, 2013 (\$4,807,956), October 31, 2014 (\$1,142,602), October 31, 2015 (\$2,782,217), October 31, 2016 (\$63,478,422), October 31, 2017 (\$33,311,438) and October 31, 2018 (\$11,653,011).

As of October 31, 2010, the Trust had no uncertain tax positions that would require financial statement recognition, de-recognition, or disclosure. Each of the Trust's federal tax returns filed in the 3-year period ended October 31, 2010 remains subject to examination by the Internal Revenue Service.

E Expense Reduction State Street Bank and Trust Company (SSBT) serves as custodian of the Trust. Pursuant to the custodian agreement, SSBT receives a fee reduced by credits, which are determined based on the average daily cash balance the Trust maintains with SSBT. All credit balances, if any, used to reduce the Trust's custodian fees are reported as a reduction of expenses in the Statement of Operations.

F Foreign Currency Translation Investment valuations, other assets, and liabilities initially expressed in foreign currencies are translated each business day into U.S. dollars based upon current exchange rates. Purchases and sales of foreign investment securities and income and expenses denominated in foreign currencies are translated into U.S. dollars based upon currency exchange rates in effect on the respective dates of such transactions. Recognized gains or losses on investment transactions attributable to changes in foreign currency exchange rates are recorded for financial statement purposes as net realized gains and losses on investments. That portion of unrealized gains and losses on investments that results from fluctuations in foreign currency exchange rates is not separately disclosed.

G Unfunded Loan Commitments The Trust may enter into certain credit agreements all or a portion of which may be unfunded. The Trust is obligated to fund these commitments at the borrower's discretion. The

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

commitments are disclosed in the accompanying Portfolio of Investments. At October 31, 2010, the Trust had sufficient cash and/or securities to cover these commitments.

H Use of Estimates The preparation of the financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities at the date of the financial statements and the reported amounts of income and expense during the reporting period. Actual results could differ from those estimates.

I Indemnifications Under the Trust's organizational documents, its officers and Trustees may be indemnified against certain liabilities and expenses arising out of the performance of their duties to the Trust. Under Massachusetts law, if certain conditions prevail, shareholders of a Massachusetts business trust (such as the Trust) could be deemed to have personal liability for the obligations of the Trust. However, the Trust's Declaration of Trust contains an express disclaimer of liability on the part of Fund shareholders and the By-laws provide that the Trust shall assume the defense on behalf of any Fund shareholders. Moreover, the By-laws also provide for indemnification out of Fund property of any shareholder held personally liable solely by reason of being or having been a shareholder for all loss or expense arising from such liability. Additionally, in the normal course of business, the Trust enters into agreements with service providers that may contain indemnification clauses. The Trust's maximum exposure under these arrangements is unknown as this would involve future claims that may be made against the Trust that have not yet occurred.

J Forward Foreign Currency Exchange Contracts The Trust may enter into forward foreign currency exchange contracts for the purchase or sale of a specific foreign currency at a fixed price on a future date. The Trust enters into forward contracts for hedging purposes as well as non-hedging purposes. The forward foreign currency exchange contracts are adjusted by the daily exchange rate of the underlying currency and any gains or losses are recorded as unrealized until such time as the contracts have been closed or offset by another contract with the same broker for the same settlement date and currency. Risks may arise upon entering these contracts from the potential inability of counterparties to meet the terms of their contracts and from movements in the value of a foreign currency relative to the U.S. dollar.

K Credit Default Swaps When the Trust is the buyer of a credit default swap contract, the Trust is entitled to receive the par (or other agreed-upon) value of a referenced debt obligation (or basket of debt obligations) from the counterparty to the contract if a credit event by a third party, such as a U.S. or foreign corporate issuer or sovereign issuer, on the debt obligation occurs. In return, the Trust pays the counterparty a periodic stream of payments over the term of the contract provided that no credit event has occurred. If no credit event occurs, the Trust would have spent the stream of payments and received no benefits from the contract. When the Trust is the seller of a credit default swap contract, it receives the stream of payments, but is obligated to pay to the buyer of the protection an amount up to the notional amount of the swap and in certain instances take delivery of securities of the reference entity upon the occurrence of a credit event, as defined under the terms of that particular swap agreement. Credit events are contract specific but may include bankruptcy, failure to pay, restructuring, obligation acceleration and repudiation/moratorium. If the Trust is a seller of protection and a credit event occurs, the maximum potential amount of future payments that the Trust could be required to make would be an amount equal to the notional amount of the agreement. This potential amount would be partially offset by any recovery value of the respective referenced obligation, or net amount received from the settlement of a buy protection credit default swap agreement entered into by the Trust for the same referenced obligation. As the seller, the Trust effectively adds leverage to its portfolio because, in addition to its total

net assets, the Trust is subject to investment exposure on the notional amount of the swap. The interest fee paid or received on the swap contract, which is based on a specified interest rate on a fixed notional amount, is accrued daily as a component of unrealized appreciation (depreciation) and is recorded as realized gain upon receipt or realized loss upon payment. The Trust also records an increase or decrease to unrealized appreciation (depreciation) in an amount equal to the daily valuation. Upfront payments or receipts, if any, are recorded as other assets or other liabilities, respectively, and amortized over the life of the swap contract as realized gains or losses. The Trust segregates assets in the form of cash or liquid securities in an amount equal to the notional amount of the credit default swaps of which it is the seller. The Trust segregates assets in the form of cash or liquid securities in an amount equal to any unrealized depreciation of the credit default swaps of which it is the buyer, marked to market on a daily basis. These transactions involve certain risks, including the risk that the seller may be unable to fulfill the transaction.

L Statement of Cash Flows The cash amount shown in the Statement of Cash Flows of the Trust is the amount included in the Trust's Statement of Assets and Liabilities and represents the cash on hand at its custodian and does not include any short-term investments.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

2 Auction Preferred Shares

The Trust issued Auction Preferred Shares (APS) on January 26, 2004 in a public offering. The underwriting discount and other offering costs incurred in connection with the offering were recorded as a reduction of the paid-in capital of the common shares. Dividends on the APS, which accrue daily, are cumulative at rates which are reset weekly for Series A and Series B, and approximately monthly for Series C and Series D by an auction, unless a special dividend period has been set. Series of APS are identical in all respects except for the reset dates of the dividend rates. If the APS auctions do not successfully clear, the dividend payment rate over the next period for the APS holders is set at a specified maximum applicable rate until such time as the APS auctions are successful. Auctions have not cleared since February 13, 2008 and the rate since that date has been the maximum applicable rate (see Note 3). The maximum applicable rate on the APS is 150% of the AA Financial Composite Commercial Paper Rate at the date of the auction.

The number of APS issued and outstanding as of October 31, 2010 is as follows:

| Series | APS Issued and Outstanding |
|--------|-------------------------------|
| A | 1,313 |
| B | 1,313 |
| C | 1,313 |
| D | 1,313 |

The APS are redeemable at the option of the Trust at a redemption price equal to \$25,000 per share, plus accumulated and unpaid dividends, on any dividend payment date. The APS are also subject to mandatory redemption at a redemption price equal to \$25,000 per share, plus accumulated and unpaid dividends, if the Trust is in default for an extended period on its asset maintenance requirements with respect to the APS. If the dividends on the APS remain unpaid in an amount equal to two full years' dividends, the holders of the APS as a class have the right to elect a majority of the Board of Trustees. In general, the holders of the APS and the common shares have equal voting rights of one vote per share, except that the holders of the APS, as a separate class, have the right to elect at least two members of the Board of Trustees. The APS have a liquidation preference of \$25,000 per share, plus accumulated and unpaid dividends. The Trust is required to maintain certain asset coverage with respect to the APS as defined in the Trust's By-Laws and the 1940 Act. The Trust pays an annual fee up to 0.15% of the liquidation value of the APS to broker-dealers as a service fee if the auctions are unsuccessful; otherwise, the annual fee is 0.25%.

3 Distributions to Shareholders

The Trust intends to make monthly distributions of net investment income to common shareholders, after payment of any dividends on any outstanding APS. In addition, at least annually, the Trust intends to distribute all or substantially all of its net realized capital gains (reduced by available capital loss carryforwards from prior years, if any). Distributions to common shareholders are recorded on the ex-dividend date. Distributions to preferred shareholders are recorded daily and are payable at the end of each dividend period. The dividend rates for the APS at October 31, 2010, and the amount of dividends accrued (including capital gains, if any) to APS shareholders, average APS dividend rates, and dividend rate ranges for the year then ended were as follows:

| | APS Dividend Rates at October 31, 2010 | Dividends Accrued to APS Shareholders | Average APS Dividend Rates | Dividend Rate Ranges |
|----------|---|--|---|-------------------------------------|
| Series A | 0.30% | \$ 96,489 | 0.29% | 0.05% 0.47% |
| Series B | 0.30% | \$ 96,489 | 0.29% | 0.05% 0.47% |
| Series C | 0.29% | \$ 96,554 | 0.29% | 0.15% 0.39% |
| Series D | 0.32% | \$ 95,075 | 0.29% | 0.05% 0.41% |

Beginning February 13, 2008 and consistent with the patterns in the broader market for auction-rate securities, the Trust's APS auctions were unsuccessful in clearing due to an imbalance of sell orders over bids to buy the APS. As a result, the dividend rates of the APS were reset to the maximum applicable rate. The table above reflects such maximum dividend rate for each series as of October 31, 2010.

The Trust distinguishes between distributions on a tax basis and a financial reporting basis. Accounting principles generally accepted in the United States of America require that only distributions in excess of tax basis earnings and profits be reported in the financial statements as a return of capital. Permanent differences between book and tax accounting relating to distributions are reclassified to paid-in capital. For tax purposes, distributions from short-term capital gains are considered to be from ordinary income.

The tax character of distributions declared for the years ended October 31, 2010 and October 31, 2009 was as follows:

| | Year Ended October 31, | |
|------------------------------|-------------------------------|---------------|
| | 2010 | 2009 |
| Distributions declared from: | | |
| Ordinary income | \$ 37,690,287 | \$ 29,963,535 |

During the year ended October 31, 2010, accumulated net realized loss was decreased by \$4,141,936, accumulated undistributed net investment income was increased by \$2,663,821, and paid-in capital was decreased by

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

\$6,805,757 due to differences between book and tax accounting, primarily for premium amortization, defaulted bond interest, mixed straddles and foreign currency gain (loss). These reclassifications had no effect on the net assets or net asset value per share of the Trust.

As of October 31, 2010, the components of distributable earnings (accumulated losses) and unrealized appreciation (depreciation) on a tax basis were as follows:

| | | |
|-------------------------------|----|---------------|
| Undistributed ordinary income | \$ | 4,205,335 |
| Capital loss carryforward | \$ | (123,035,721) |
| Net unrealized depreciation | \$ | (12,971,648) |

The differences between components of distributable earnings (accumulated losses) on a tax basis and the amounts reflected in the Statement of Assets and Liabilities are primarily due to wash sales, defaulted bond interest and premium amortization.

4 Investment Adviser Fee and Other Transactions with Affiliates

The investment adviser fee is earned by EVM as compensation for management and investment advisory services rendered to the Trust. The fee is computed at an annual rate of 0.75% of the Trust's average daily gross assets and is payable monthly. Gross assets as referred to herein represent net assets plus obligations attributable to investment leverage. Prior to its liquidation in February 2010, the portion of the adviser fee payable by Cash Management Portfolio, an affiliated investment company, on the Trust's investment of cash therein was credited against the Trust's investment adviser fee. The Trust currently invests its cash in Cash Reserves Fund. EVM does not currently receive a fee for advisory services provided to Cash Reserves Fund. For the year ended October 31, 2010, the Trust's investment adviser fee totaled \$5,748,463 of which \$7,130 was allocated from Cash Management Portfolio and \$5,741,333 was paid or accrued directly by the Trust. EVM also serves as administrator of the Trust, but receives no compensation.

In addition, EVM has contractually agreed to reimburse the Trust for fees and other expenses at an annual rate of 0.20% of the Trust's average daily gross assets during the first five full years of the Trust's operations, 0.15% of the Trust's average daily gross assets in year six, 0.10% in year seven and 0.05% in year eight. The Trust concluded its first six full years of operations on November 28, 2009. Pursuant to this agreement, EVM waived \$793,832 of its investment adviser fee for the year ended October 31, 2010.

Except for Trustees of the Trust who are not members of EVM's organization, officers and Trustees receive remuneration for their services to the Trust out of the investment adviser fee. Trustees of the Trust who are not affiliated with EVM may elect to defer receipt of all or a percentage of their annual fees in accordance with the terms of the Trustees Deferred Compensation Plan. For the year ended October 31, 2010, no significant amounts have been deferred. Certain officers and Trustees of the Trust are officers of EVM.

5 Purchases and Sales of Investments

Purchases and sales of investments, other than short-term obligations and including maturities and principal repayments on Senior Loans, aggregated \$269,709,505 and \$281,572,648, respectively, for the year ended

October 31, 2010.

6 Common Shares of Beneficial Interest

The Trust may issue common shares pursuant to its dividend reinvestment plan. Common shares issued pursuant to the Trust's dividend reinvestment plan for the year ended October 31, 2010 and October 31, 2009 were 85,909 and 29,134, respectively.

7 Federal Income Tax Basis of Investments

The cost and unrealized appreciation (depreciation) of investments of the Trust at October 31, 2010, as determined on a federal income tax basis, were as follows:

| | |
|------------------------------------|------------------------|
| Aggregate cost | \$ 805,240,137 |
| Gross unrealized appreciation | \$ 17,428,456 |
| Gross unrealized depreciation | (29,830,972) |
| Net unrealized depreciation | \$ (12,402,516) |

8 Restricted Securities

At October 31, 2010, the Trust owned the following securities (representing 0.2% of net assets applicable to common shares) which were restricted as to public resale and not registered under the Securities Act of 1933 (excluding Rule 144A securities). The Trust has various registration rights (exercisable under a variety of circumstances) with respect to these securities. The value of these securities is determined based on valuations provided by brokers when available, or if not available, they are valued at fair value using methods determined in good faith by or at the direction of the Trustees.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

| Description | Date of Acquisition | Shares | Cost | Value |
|---|----------------------------|---------------|---------------------|---------------------|
| Common Stocks | | | | |
| Environmental Systems Products Holdings, Inc. | 10/25/07 | 6,211 | \$ 0 ⁽¹⁾ | \$ 54,905 |
| Panolam Holdings Co. | 12/30/09 | 253 | 139,024 | 201,163 |
| RathGibson Acquisition Co., LLC | 6/14/10 | 19,800 | 105,079 | 464,112 |
| Total Common Stocks | | | \$ 244,103 | \$ 720,180 |
| Preferred Stocks | | | | |
| Environmental Systems Products Holdings, Inc., Series A | 10/25/07 | 2,845 | \$ 49,788 | \$ 328,797 |
| Total Restricted Securities | | | \$ 293,891 | \$ 1,048,977 |

(1) Less than \$0.50.

9 Financial Instruments

The Trust may trade in financial instruments with off-balance sheet risk in the normal course of its investing activities. These financial instruments may include forward foreign currency exchange contracts and may involve, to a varying degree, elements of risk in excess of the amounts recognized for financial statement purposes. The notional or contractual amounts of these instruments represent the investment the Trust has in particular classes of financial instruments and do not necessarily represent the amounts potentially subject to risk. The measurement of the risks associated with these instruments is meaningful only when all related and offsetting transactions are considered.

A summary of obligations under these financial instruments at October 31, 2010 is as follows:

Forward Foreign Currency Exchange Contracts

Sales

| Settlement Date | Deliver | In Exchange For | Counterparty | Net Unrealized Depreciation |
|-----------------|-------------------------------------|------------------------------------|-------------------------------------|-----------------------------|
| 11/30/10 | British Pound Sterling 9,632,028 | United States Dollar 15,214,848 | State Street Bank and Trust Company | \$ (215,895) |
| 11/30/10 | Euro 23,592,424 | United States Dollar 32,514,606 | State Street Bank and Trust Company | (310,541) |
| 11/30/10 | Euro 847,500 | United States Dollar 1,176,271 | State Street Bank and Trust Company | (2,892) |
| | | | | \$ (529,328) |

Purchases

| Settlement Date | In Exchange For | Deliver | Counterparty | Net Unrealized Appreciation |
|-----------------|-----------------------------------|---------------------------------|-------------------------------------|-----------------------------|
| 11/30/10 | British Pound Sterling 380,400 | United States Dollar 600,884 | State Street Bank and Trust Company | \$ 8,526 |
| 11/30/10 | Euro 377,718 | United States Dollar 520,564 | State Street Bank and Trust Company | 4,972 |
| | | | | \$ 13,498 |

At October 31, 2010, the Trust had sufficient cash and/or securities to cover commitments under these contracts.

The Trust is subject to foreign exchange risk in the normal course of pursuing its investment objective. Because the Trust holds foreign currency denominated investments, the value of these investments and related receivables and payables may change due to future changes in foreign currency exchange rates. To hedge against this risk, the Trust

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enters into forward foreign currency exchange contracts. The Trust also enters into such contracts to hedge the currency risk of investments it anticipates purchasing.

The fair value of derivative instruments (not considered to be hedging instruments for accounting disclosure purposes) and whose primary underlying risk exposure is foreign exchange risk at October 31, 2010 was as follows:

| | Fair Value | |
|--|--|--|
| | Asset Derivatives⁽¹⁾ | Liability Derivatives⁽²⁾ |
| Forward foreign currency exchange contracts | \$ 13,498 | \$ (529,328) |

(1) Statement of Assets and Liabilities location: Receivable for open forward foreign currency exchange contracts; Net unrealized appreciation.

(2) Statement of Assets and Liabilities location: Payable for open forward foreign currency exchange contracts; Net unrealized appreciation.

The effect of derivative instruments (not considered to be hedging instruments for accounting disclosure purposes) on the Statement of Operations and whose primary underlying risk exposure is foreign exchange risk for the year ended October 31, 2010 was as follows:

| Derivative | Realized Gain | Change in Unrealized |
|--|---|--|
| | (Loss) on Derivatives Recognized in Income⁽¹⁾ | Appreciation (Depreciation) on Derivatives Recognized in Income⁽²⁾ |
| Forward foreign currency exchange contracts | \$ 3,030,089 | \$ (562,879) |

(1) Statement of Operations location: Net realized gain (loss) Foreign currency and forward foreign currency exchange contract transactions.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

- (2) Statement of Operations location: Change in unrealized appreciation (depreciation) Foreign currency and forward foreign currency exchange contracts.

The average notional amount of forward foreign currency exchange contracts outstanding during the year ended October 31, 2010, which is indicative of the volume of this derivative type, was approximately \$47,919,000.

10 Credit Agreement

The Trust has entered into a Credit Agreement (the Agreement) with a bank to borrow up to a limit of \$150 million pursuant to a 364-day revolving line of credit. Borrowings under the Agreement are secured by the assets of the Trust. Interest is charged at a rate above the London Interbank Offered Rate (LIBOR) and is payable monthly. Under the terms of the Agreement, the Trust pays a commitment fee of 0.15% on the borrowing limit. In connection with the renewal of the Agreement on March 30, 2010, the Trust paid an up-front fee of \$225,000, which is being amortized to interest expense through March 29, 2011, the termination date of the Agreement. The unamortized balance at October 31, 2010 is approximately \$92,000 and is included in prepaid expenses on the Statement of Assets and Liabilities. Also included in interest expense is \$94,000 of amortization of previously paid up-front fees related to the period from November 1, 2009 through March 30, 2010 when the Agreement was renewed. The Trust is required to maintain certain net asset levels during the term of the Agreement. At October 31, 2010, the Trust had borrowings outstanding under the Agreement of \$150,000,000 at an interest rate of 1.26%. The carrying amount of the borrowings at October 31, 2010 approximated its fair value. For the year ended October 31, 2010, the average borrowings under the Agreement and the average interest rate were \$150,000,000 and 1.28%, respectively.

11 Risks Associated with Foreign Investments

Investing in securities issued by companies whose principal business activities are outside the United States may involve significant risks not present in domestic investments. For example, there is generally less publicly available information about foreign companies, particularly those not subject to the disclosure and reporting requirements of the U.S. securities laws. Certain foreign issuers are generally not bound by uniform accounting, auditing, and financial reporting requirements and standards of practice comparable to those applicable to domestic issuers. Investments in foreign securities also involve the risk of possible adverse changes in investment or exchange control regulations, expropriation or confiscatory taxation, limitation on the removal of funds or other assets of the Trust, political or financial instability or diplomatic and other developments which could affect such investments. Foreign securities markets, while growing in volume and sophistication, are generally not as developed as those in the United States, and securities of some foreign issuers (particularly those located in developing countries) may be less liquid and more volatile than securities of comparable U.S. companies. In general, there is less overall governmental supervision and regulation of foreign securities markets, broker-dealers and issuers than in the United States.

12 Credit Risk

The Trust invests primarily in below investment grade floating-rate loans and floating-rate debt obligations, which are considered speculative because of the credit risk of their issuers. Changes in economic conditions or other circumstances are more likely to reduce the capacity of issuers of these securities to make principal and interest payments. Such companies are more likely to default on their payments of interest and principal owed than issuers of investment grade bonds. An economic downturn generally leads to a higher non-payment rate, and a loan or other debt

obligation may lose significant value before a default occurs. Lower rated investments also may be subject to greater price volatility than higher rated investments. Moreover, the specific collateral used to secure a loan may decline in value or become illiquid, which would adversely affect the loan's value.

13 Fair Value Measurements

Under generally accepted accounting principles for fair value measurements, a three-tier hierarchy to prioritize the assumptions, referred to as inputs, is used in valuation techniques to measure fair value. The three-tier hierarchy of inputs is summarized in the three broad levels listed below.

Level 1 quoted prices in active markets for identical investments

Level 2 other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.)

Level 3 significant unobservable inputs (including a fund's own assumptions in determining the fair value of investments)

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

NOTES TO FINANCIAL STATEMENTS CONT D

At October 31, 2010, the inputs used in valuing the Trust's investments, which are carried at value, were as follows:

| Asset Description | Quoted Prices in Active Markets for Identical Assets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) | Total |
|---|---|--|--|-----------------------|
| Senior Floating-Rate Interests (Less Unfunded Loan Commitments) | \$ | \$ 707,085,573 | \$ 1,958,716 | \$ 709,044,289 |
| Corporate Bonds & Notes | | 53,326,730 | 528,020 | 53,854,750 |
| Asset-Backed Securities | | 6,241,201 | | 6,241,201 |
| Common Stocks | 303,199 | 5,564,388 | 1,650,143 | 7,517,730 |
| Preferred Stocks | | | 328,797 | 328,797 |
| Warrants | | 9,004 | 0 | 9,004 |
| Miscellaneous | | 31,260 | | 31,260 |
| Short-Term Investments | | 15,810,590 | | 15,810,590 |
| Total Investments | \$ 303,199 | \$ 788,068,746 | \$ 4,465,676 | \$ 792,837,621 |
| Forward Foreign Currency Exchange Contracts | \$ | \$ 13,498 | \$ | \$ 13,498 |
| Total | \$ 303,199 | \$ 788,082,244 | \$ 4,465,676 | \$ 792,851,119 |
| Liability Description | | | | |
| Forward Foreign Currency Exchange Contracts | \$ | \$ (529,328) | \$ | \$ (529,328) |

Total \$ \$ **(529,328)** \$ \$ **(529,328)**

The following is a reconciliation of Level 3 assets for which significant unobservable inputs were used to determine fair value:

| | Investments in Senior Floating- Rate Interests | Investments in Corporate Bonds & Notes | Investments in Common Stocks | Investments in Preferred Stocks | Investments in Warrants and Miscellaneous | Total |
|---|---|---|---|--|--|--------------|
| Balance as of October 31, 2009 | \$ 796,749 | \$ 463,437 | \$ 301,213 | \$ 227,600 | \$ 0 | \$ 1,788,999 |
| Realized gains (losses) | (655,375) | 939 | | | 1,840 | (654,436) |
| Change in net unrealized appreciation (depreciation)* | 160,261 | (223,748) | 710,008 | 101,197 | | 747,718 |
| Net purchases (sales) | (133,104) | 54,994 | 638,922 | | (1,840) | 560,812 |
| Accrued discount (premium) | 9,820 | 13,691 | | | | 23,511 |
| Net transfers to (from) Level 3** | 1,780,365 | 218,707 | | | | 1,999,072 |
| Balance as of October 31, 2010 | \$ 1,958,716 | \$ 528,020 | \$ 1,650,143 | \$ 328,797 | \$ 0 | \$ 4,465,676 |
| Change in net unrealized appreciation (depreciation) on investments still held as of October 31, 2010* | \$ 454,558 | \$ (223,748) | \$ 710,008 | \$ 101,197 | \$ | \$ 1,042,015 |

* Amount is included in the related amount on investments in the Statement of Operations.

** Transfers are reflected at the value of the securities at the beginning of the period.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Trustees and Shareholders of Eaton Vance Senior Floating-Rate Trust:

We have audited the accompanying statement of assets and liabilities of Eaton Vance Senior Floating-Rate Trust (the Trust), including the portfolio of investments, as of October 31, 2010, and the related statements of operations and cash flows for the year then ended, the statements of changes in net assets for each of the two years in the period then ended, and the financial highlights for each of the five years in the period then ended. These financial statements and financial highlights are the responsibility of the Trust 's management. Our responsibility is to express an opinion on these financial statements and financial highlights based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements and financial highlights are free of material misstatement. The Trust is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. Our audits included consideration of internal control over financial reporting as a basis for designing audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Trust 's internal control over financial reporting. Accordingly, we express no such opinion. An audit also includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. Our procedures included confirmation of securities and senior loans owned as of October 31, 2010, by correspondence with the custodian, brokers, and selling or agent banks; where replies were not received from brokers and selling or agent banks, we performed other auditing procedures. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, the financial statements and financial highlights referred to above present fairly, in all material respects, the financial position of Eaton Vance Senior Floating-Rate Trust as of October 31, 2010, the results of its operations and its cash flows for the year then ended, the changes in its net assets for each of the two years in the period then ended, and the financial highlights for each of the five years in the period then ended, in conformity with accounting principles generally accepted in the United States of America.

DELOITTE & TOUCHE LLP
Boston, Massachusetts
December 20, 2010

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

FEDERAL TAX INFORMATION (Unaudited)

The Form 1099-DIV you receive in January 2011 will show the tax status of all distributions paid to your account in calendar year 2010. Shareholders are advised to consult their own tax adviser with respect to the tax consequences of their investment in the Trust.

Eaton Vance Senior Floating-Rate Trust as of October 31, 2010

ANNUAL MEETING OF SHAREHOLDERS (Unaudited)

The Trust held its Annual Meeting of Shareholders on August 27, 2010. The following action was taken by the shareholders:

Item 1: The election of Allen R. Freedman, Lynn A. Stout and Benjamin C. Esty as Class I Trustees of the Trust for a three-year term expiring in 2013. Mr. Esty was elected solely by APS shareholders.

| Nominee for Trustee Elected by APS Shareholders | Number of Shares | |
|--|-------------------------|-----------------|
| | For | Withheld |
| Benjamin C. Esty (APS) | 3,178 | 219 |

| Nominee for Trustee Elected by All Shareholders | Number of Shares | |
|--|-------------------------|-----------------|
| | For | Withheld |
| Allen R. Freedman | 25,272,990 | 782,523 |
| Lynn A. Stout | 25,303,079 | 752,434 |

Eaton Vance Senior Floating-Rate Trust

DIVIDEND REINVESTMENT PLAN

The Trust offers a dividend reinvestment plan (the Plan) pursuant to which shareholders may elect to have distributions automatically reinvested in common shares (the Shares) of the Trust. You may elect to participate in the Plan by completing the Dividend Reinvestment Plan Application Form. If you do not participate, you will receive all distributions in cash paid by check mailed directly to you by American Stock Transfer & Trust Company (AST) as dividend paying agent. On the distribution payment date, if the net asset value per Share is equal to or less than the market price per Share plus estimated brokerage commissions, then new Shares will be issued. The number of Shares shall be determined by the greater of the net asset value per Share or 95% of the market price. Otherwise, Shares generally will be purchased on the open market by the Plan Agent. Distributions subject to income tax (if any) are taxable whether or not shares are reinvested.

If your shares are in the name of a brokerage firm, bank, or other nominee, you can ask the firm or nominee to participate in the Plan on your behalf. If the nominee does not offer the Plan, you will need to request that your shares be re-registered in your name with the Trust's transfer agent, AST, or you will not be able to participate.

The Plan Agent's service fee for handling distributions will be paid by the Trust. Each participant will be charged their pro-rata share of brokerage commissions on all open-market purchases.

Plan participants may withdraw from the Plan at any time by writing to the Plan Agent at the address noted on the following page. If you withdraw, you will receive shares in your name for all Shares credited to your account under the Plan. If a participant elects by written notice to the Plan Agent to have the Plan Agent sell part or all of his or her Shares and remit the proceeds, the Plan Agent is authorized to deduct a \$5.00 fee plus brokerage commissions from the proceeds.

If you wish to participate in the Plan and your shares are held in your own name, you may complete the form on the following page and deliver it to the Plan Agent.

Any inquiries regarding the Plan can be directed to the Plan Agent, AST, at 1-866-439-6787.

Eaton Vance Senior Floating-Rate Trust

APPLICATION FOR PARTICIPATION IN DIVIDEND REINVESTMENT PLAN

This form is for shareholders who hold their common shares in their own names. If your common shares are held in the name of a brokerage firm, bank, or other nominee, you should contact your nominee to see if it will participate in the Plan on your behalf. If you wish to participate in the Plan, but your brokerage firm, bank, or nominee is unable to participate on your behalf, you should request that your common shares be re-registered in your own name which will enable your participation in the Plan.

The following authorization and appointment is given with the understanding that I may terminate it at any time by terminating my participation in the Plan as provided in the terms and conditions of the Plan.

Please print exact name on account:

| | |
|-----------------------|------|
| Shareholder signature | Date |
| Shareholder signature | Date |

Please sign exactly as your common shares are registered. All persons whose names appear on the share certificate must sign.

YOU SHOULD NOT RETURN THIS FORM IF YOU WISH TO RECEIVE YOUR DISTRIBUTIONS IN CASH. THIS IS NOT A PROXY.

This authorization form, when signed, should be mailed to the following address:

Eaton Vance Senior Floating-Rate Trust
c/o American Stock Transfer & Trust Company
P.O. Box 922
Wall Street Station
New York, NY 10269-0560

Number of Employees

The Trust is organized as a Massachusetts business trust and is registered under the Investment Company Act of 1940, as amended, as a closed-end management investment company and has no employees.

Number of Shareholders

As of October 31, 2010, our records indicate that there are 53 registered shareholders and approximately 24,409 shareholders owning the Trust shares in street name, such as through brokers, banks, and financial intermediaries.

If you are a street name shareholder and wish to receive Trust reports directly, which contain important information about the Trust, please write or call:

Eaton Vance Distributors, Inc.
Two International Place
Boston, MA 02110
1-800-262-1122

New York Stock Exchange symbol

The New York Stock Exchange symbol is EFR.

Eaton Vance Senior Floating-Rate Trust

BOARD OF TRUSTEES CONTRACT APPROVAL

Overview of the Contract Review Process

The Investment Company Act of 1940, as amended (the 1940 Act), provides, in substance, that each investment advisory agreement between a fund and its investment adviser will continue in effect from year to year only if its continuance is approved at least annually by the fund's board of trustees, including by a vote of a majority of the trustees who are not interested persons of the fund (Independent Trustees), cast in person at a meeting called for the purpose of considering such approval.

At a meeting of the Boards of Trustees (each a Board) of the Eaton Vance group of mutual funds (the Eaton Vance Funds) held on April 26, 2010, the Board, including a majority of the Independent Trustees, voted to approve continuation of existing advisory and sub-advisory agreements for the Eaton Vance Funds for an additional one-year period. In voting its approval, the Board relied upon the affirmative recommendation of the Contract Review Committee of the Board, which is a committee comprised exclusively of Independent Trustees. Prior to making its recommendation, the Contract Review Committee reviewed information furnished for a series of meetings of the Contract Review Committee held between February and April 2010. Such information included, among other things, the following:

Information about Fees, Performance and Expenses

- An independent report comparing the advisory and related fees paid by each fund with fees paid by comparable funds;
- An independent report comparing each fund's total expense ratio and its components to comparable funds;
- An independent report comparing the investment performance of each fund (including yield where relevant) to the investment performance of comparable funds over various time periods;
- Data regarding investment performance in comparison to relevant peer groups of similarly managed funds and appropriate indices;
- For each fund, comparative information concerning the fees charged and the services provided by each adviser in managing other mutual funds and institutional accounts using investment strategies and techniques similar to those used in managing such fund;
- Profitability analyses for each adviser with respect to each fund;

Information about Portfolio Management

- Descriptions of the investment management services provided to each fund, including the investment strategies and processes employed, and any changes in portfolio management processes and personnel;
- Information concerning the allocation of brokerage and the benefits received by each adviser as a result of brokerage allocation, including information concerning the acquisition of research through soft dollar benefits received in connection with the funds' brokerage, and the implementation of a soft dollar reimbursement program established with respect to the funds;
- Data relating to portfolio turnover rates of each fund;
- The procedures and processes used to determine the fair value of fund assets and actions taken to monitor and test the effectiveness of such procedures and processes;

Information about each Adviser

Reports detailing the financial results and condition of each adviser;
Descriptions of the qualifications, education and experience of the individual investment professionals whose responsibilities include portfolio management and investment research for the funds, and information relating to their compensation and responsibilities with respect to managing other mutual funds and investment accounts;
Copies of the Codes of Ethics of each adviser and its affiliates, together with information relating to compliance with and the administration of such codes;
Copies of or descriptions of each adviser's policies and procedures relating to proxy voting, the handling of corporate actions and class actions;
Information concerning the resources devoted to compliance efforts undertaken by each adviser and its affiliates on behalf of the funds (including descriptions of various compliance programs) and their record of compliance with investment policies and restrictions, including policies with respect to market-timing, late trading and selective portfolio disclosure, and with policies on personal securities transactions;
Descriptions of the business continuity and disaster recovery plans of each adviser and its affiliates;
A description of Eaton Vance Management's procedures for overseeing third party advisers and sub-advisers;

Other Relevant Information

Information concerning the nature, cost and character of the administrative and other non-investment management services provided by Eaton Vance Management and its affiliates;
Information concerning management of the relationship with the custodian, subcustodians and fund accountants by each adviser or the funds' administrator; and
The terms of each advisory agreement.

Eaton Vance Senior Floating-Rate Trust

BOARD OF TRUSTEES CONTRACT APPROVAL CONT D

In addition to the information identified above, the Contract Review Committee considered information provided from time to time by each adviser throughout the year at meetings of the Board and its committees. Over the course of the twelve-month period ended April 30, 2010, with respect to one or more Funds, the Board met ten times and the Contract Review Committee, the Audit Committee, the Governance Committee, the Portfolio Management Committee and the Compliance Reports and Regulatory Matters Committee, each of which is a Committee comprised solely of Independent Trustees, met nine, thirteen, three, eight and fifteen times, respectively. At such meetings, the Trustees received, among other things, presentations by the portfolio managers and other investment professionals of each adviser relating to the investment performance of each fund and the investment strategies used in pursuing the fund's investment objective, as well as trading policies and procedures and risk management techniques.

For funds that invest through one or more underlying portfolios, the Board considered similar information about the portfolio(s) when considering the approval of advisory agreements. In addition, in cases where the fund's investment adviser has engaged a sub-adviser, the Board considered similar information about the sub-adviser when considering the approval of any sub-advisory agreement.

The Contract Review Committee was assisted throughout the contract review process by Goodwin Procter LLP, legal counsel for the Independent Trustees. The members of the Contract Review Committee relied upon the advice of such counsel and their own business judgment in determining the material factors to be considered in evaluating each advisory and sub-advisory agreement and the weight to be given to each such factor. The conclusions reached with respect to each advisory and sub-advisory agreement were based on a comprehensive evaluation of all the information provided and not any single factor. Moreover, each member of the Contract Review Committee may have placed varying emphasis on particular factors in reaching conclusions with respect to each advisory and sub-advisory agreement.

Results of the Process

Based on its consideration of the foregoing, and such other information as it deemed relevant, including the factors and conclusions described below, the Contract Review Committee concluded that the continuance of the investment advisory agreement between Eaton Vance Senior Floating-Rate Trust (the Fund) and Eaton Vance Management (the Adviser), including its fee structure, is in the interests of shareholders and, therefore, the Contract Review Committee recommended to the Board approval of the agreement. The Board accepted the recommendation of the Contract Review Committee as well as the factors considered and conclusions reached by the Contract Review Committee with respect to the agreement. Accordingly, the Board, including a majority of the Independent Trustees, voted to approve continuation of the investment advisory agreement for the Fund.

Nature, Extent and Quality of Services

In considering whether to approve the investment advisory agreement of the Fund, the Board evaluated the nature, extent and quality of services provided to the Fund by the Adviser.

The Board considered the Adviser's management capabilities and investment process with respect to the types of investments held by the Fund, including the education, experience and number of its investment professionals and other personnel who provide portfolio management, investment research, and similar services to the Fund. In

particular, the Board evaluated the abilities and experience of such investment personnel in analyzing special considerations relevant to investing in senior secured floating rate loans. Specifically, the Board noted the experience of the Adviser's large group of bank loan investment professionals and other personnel who provide services to the Fund, including portfolio managers and analysts. The Board also took into account the resources dedicated to portfolio management and other services, including the compensation methods of the Adviser to recruit and retain investment personnel, and the time and attention devoted to the Fund by senior management.

The Board also reviewed the compliance programs of the Adviser and relevant affiliates thereof. Among other matters, the Board considered compliance and reporting matters relating to personal trading by investment personnel, selective disclosure of portfolio holdings, late trading, frequent trading, portfolio valuation, business continuity and the allocation of investment opportunities. The Board also evaluated the responses of the Adviser and its affiliates to requests in recent years from regulatory authorities such as the Securities and Exchange Commission and the Financial Industry Regulatory Authority.

The Board considered shareholder and other administrative services provided or managed by Eaton Vance Management and its affiliates, including transfer agency and accounting services. The Board evaluated the benefits to shareholders of investing in a fund that is a part of a large family of funds.

After consideration of the foregoing factors, among others, the Board concluded that the nature, extent and quality of services provided by the Adviser, taken as a whole, are appropriate and consistent with the terms of the investment advisory agreement.

Eaton Vance Senior Floating-Rate Trust

BOARD OF TRUSTEES CONTRACT APPROVAL CONT'D

Fund Performance

The Board compared the Fund's investment performance to a relevant universe of comparable funds identified by an independent data provider as well as a peer group of similarly managed funds and appropriate benchmark indices. The Board reviewed comparative performance data for the one-, three- and five-year periods ended September 30, 2009 for the Fund. The Board concluded that the performance of the Fund was satisfactory.

Management Fees and Expenses

The Board reviewed contractual investment advisory fee rates, payable by the Fund (referred to as "management fees"). As part of its review, the Board considered the management fees and the Fund's total expense ratio for the year ended September 30, 2009, as compared to a group of similarly managed funds selected by an independent data provider. The Board also considered factors that had an impact on Fund expense ratios, as identified by management in response to inquiries from the Contract Review Committee, as well as actions being taken to reduce expenses at the fund complex level. The Board considered the fact that the Adviser had waived fees and/or paid expenses for the Fund.

After reviewing the foregoing information, and in light of the nature, extent and quality of the services provided by the Adviser, the Board concluded that the management fees charged for advisory and related services are reasonable.

Profitability

The Board reviewed the level of profits realized by the Adviser and relevant affiliates thereof in providing investment advisory and administrative services to the Fund and to all Eaton Vance Funds as a group. The Board considered the level of profits realized with and without regard to revenue sharing or other payments by the Adviser and its affiliates to third parties in respect of distribution services. The Board also considered other direct or indirect benefits received by the Adviser and its affiliates in connection with its relationship with the Fund, including the benefits of research services that may be available to the Adviser as a result of securities transactions effected for the Fund and other investment advisory clients.

The Board concluded that, in light of the foregoing factors and the nature, extent and quality of the services rendered, the profits realized by the Adviser and its affiliates are reasonable.

Economies of Scale

In reviewing management fees and profitability, the Board also considered the extent to which the Adviser and its affiliates, on the one hand, and the Fund, on the other hand, can expect to realize benefits from economies of scale as the assets of the Fund increase. The Board acknowledged the difficulty in accurately measuring the benefits resulting from the economies of scale with respect to the management of any specific fund or group of funds. The Board also considered the fact that the Fund is not continuously offered and concluded that, in light of the level of the Adviser's profits with respect to the Fund, the implementation of breakpoints in the advisory fee schedule is not appropriate at this time. Based upon the foregoing, the Board concluded that the benefits from economies of scale are currently being shared equitably by the Adviser and its affiliates and the Fund.

Eaton Vance Senior Floating-Rate Trust

MANAGEMENT AND ORGANIZATION

Trust Management. The Trustees of Eaton Vance Senior Floating-Rate Trust (the Trust) are responsible for the overall management and supervision of the Trust's affairs. The Trustees and officers of the Trust are listed below. Except as indicated, each individual has held the office shown or other offices in the same company for the last five years. The Noninterested Trustees consist of those Trustees who are not interested persons of the Trust, as that term is defined under the 1940 Act. The business address of each Trustee and officer is Two International Place, Boston, Massachusetts 02110. As used below, EVC refers to Eaton Vance Corp., EV refers to Eaton Vance, Inc., EVM refers to Eaton Vance Management, BMR refers to Boston Management and Research, and EVD refers to Eaton Vance Distributors, Inc. EVC and EV are the corporate parent and trustee, respectively, of EVM and BMR. EVD is a wholly-owned subsidiary of EVC. Each officer affiliated with Eaton Vance may hold a position with other Eaton Vance affiliates that is comparable to his or her position with EVM listed below.

| Name and Year of Birth | Position(s) with the Trust | Term of Office and Length of Service | Principal Occupation(s) During Past Five Years and Other Relevant Experience | Number of Portfolios in Fund Complex Overseen By Trustee⁽¹⁾ | Other Directorships Held During the Last Five Years⁽²⁾ |
|-------------------------------|-----------------------------------|---|--|---|--|
| Interested Trustee | | | | | |
| Thomas E. Faust Jr. 1958 | Class II Trustee | Until 2011. 3 years. Trustee since 2007. | Chairman, Chief Executive Officer and President of EVC, Director and President of EV, Chief Executive Officer and President of EVM and BMR, and Director of EVD. Trustee and/or officer of 184 registered investment companies and 1 private investment company managed by EVM or BMR. Mr. Faust is an interested person because of his positions with EVM, BMR, EVD, EVC and EV, which are affiliates of the Trust. | 184 | Director of EVC. |

Noninterested Trustees

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| | | | | | |
|---|----------------------|---|--|-----|--|
| Benjamin C. Esty ^(A) 1963 | Class I Trustee | Until 2013. 3 years. Trustee since 2005. | Roy and Elizabeth Simmons Professor of Business Administration and Finance Unit Head, Harvard University Graduate School of Business Administration. | 184 | None |
| Allen R. Freedman 1940 | Class I Trustee | Until 2013. 3 years. Trustee since 2007. | Private Investor and Consultant. Former Chairman (2002-2004) and a Director (1983-2004) of Systems & Computer Technology Corp. (provider of software to higher education). Formerly, a Director of Loring Ward International (fund distributor) (2005-2007). Formerly, Chairman and a Director of Indus International, Inc. (provider of enterprise management software to the power generating industry) (2005-2007). | 184 | Director of Assurant, Inc. (insurance provider) and Stonemor Partners, L.P. (owner and operator of cemeteries). |
| William H. Park 1947 | Class II Trustee | Until 2011. 3 years. Trustee since 2003. | Chief Financial Officer, Aveon Group L.P. (an investment management firm) (since 2010). Formerly, Vice Chairman, Commercial Industrial Finance Corp. (specialty finance company) (2006-2010). Formerly, President and Chief Executive Officer, Prizm Capital Management, LLC (investment management firm) (2002-2005). Formerly, Executive Vice President and Chief Financial Officer, United Asset Management Corporation (an institutional investment management firm) (1982-2001). Formerly, Senior Manager, Price Waterhouse (now PricewaterhouseCoopers) (an independent registered public accounting firm) (1972-1981). | 184 | None |
| Ronald A. Pearlman | Class III Trustee | Until 2012. 3 years. | Professor of Law, Georgetown University Law Center. | 184 | None |

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| | | | | |
|-------------------------------|----------------------|---|--|--|
| 1940 | | Trustee since 2003. | Formerly, Deputy Assistant Secretary (Tax Policy) and Assistant Secretary (Tax Policy), U.S. Department of the Treasury (1983-1985). Formerly, Chief of Staff, Joint Committee on Taxation, U.S. Congress (1988-1990). | |
| Helen Frame Peters 1948 | Class III Trustee | Until 2012. 3 years. Trustee since 2008. | Professor of Finance, Carroll School of Management, Boston College. Formerly, Dean, Carroll School of Management, Boston College (2000-2002). Formerly, Chief Investment Officer, Fixed Income, Scudder Kemper Investments (investment management firm) (1998-1999). Formerly, Chief Investment Officer, Equity and Fixed Income, Colonial Management Associates (investment management firm) (1991-1998). | 184 Director of BJ's Wholesale Club, Inc. (wholesale club retailer). Formerly, Trustee of SPDR Index Shares Funds and SPDR Series Trust (exchange traded funds) (2000-2009). Formerly, Director of Federal Home Loan Bank of Boston (a bank for banks) (2007-2009). |

Eaton Vance Senior Floating-Rate Trust

MANAGEMENT AND ORGANIZATION CONT D

| Name and Year of Birth | Position(s) with the Trust | Term of Office and Length of Service | Principal Occupation(s) During Past Five Years and Other Relevant Experience | Number of Portfolios in Fund Complex Overseen By Trustee⁽¹⁾ | Other Directorships Held During the Last Five Years⁽²⁾ |
|---------------------------------------|---|---|---|---|--|
| Noninterested Trustees (continued) | | | | | |
| Lynn A. Stout 1957 | Class I Trustee | Until 2013. 3 years. Trustee since 2003. | Paul Hastings Professor of Corporate and Securities Law (since 2006) and Professor of Law (2001-2006), University of California at Los Angeles School of Law. Professor Stout teaches classes in corporate law and securities regulation and is the author of numerous academic and professional papers on these areas. | 184 | None |
| Ralph F. Verni ^(A) 1943 | Chairman of the Board and Class II Trustee | Until 2011. 3 years. Trustee since 2005; Chairman of the Board since 2007. | Consultant and private investor. Formerly, Chief Investment Officer (1982-1992), Chief Financial Officer (1988-1990) and Director (1982-1992), New England Life. Formerly, Chairperson, New England Mutual Funds (1982-1992). Formerly, President and Chief Executive Officer, State Street Management & Research (1992-2000). Formerly, Chairperson, State Street Research Mutual Funds (1992-2000). Formerly, Director, W.P. Carey, LLC (1998-2004) and First Pioneer | 184 | None |

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Farm Credit Corp.
(2002-2006).

Principal Officers who are not Trustees

| Name and Year of Birth | Position(s) with the Trust | Term of Office and Length of Service | Principal Occupation(s) During Past Five Years |
|-------------------------------|-----------------------------------|---|--|
| Scott H. Page 1959 | President | Since 2008 | Vice President of EVM and BMR. Officer of 10 registered investment companies managed by EVM or BMR. |
| Peter M. Campo 1972 | Vice President | Since 2008 | Vice President of EVM and BMR. Officer of 1 registered investment company managed by EVM or BMR. |
| Craig P. Russ 1963 | Vice President | Since 2003 | Vice President of EVM and BMR. Officer of 5 registered investment companies managed by EVM or BMR. |
| Michael W. Weilheimer 1961 | Vice President | Since 2003 | Vice President of EVM and BMR. Officer of 26 registered investment companies managed by EVM or BMR. |
| Barbara E. Campbell 1957 | Treasurer | Since 2003 | Vice President of EVM and BMR. Officer of 184 registered investment companies managed by EVM or BMR. |
| Maureen A. Gemma 1960 | Secretary and Chief Legal Officer | Secretary since 2007 and Chief Legal Officer since 2008 | Vice President of EVM and BMR. Officer of 184 registered investment companies managed by EVM or BMR. |
| Paul M. O Neil 1953 | Chief Compliance Officer | Since 2004 | Vice President of EVM and BMR. Officer of 184 registered investment companies managed by EVM or BMR. |

(1) Includes both master and feeder funds in a master-feeder structure.

(2) During their respective tenures, the Trustees also served as trustees of one or more of the following Eaton Vance funds (which operated in the years noted): Eaton Vance Credit Opportunities Fund (launched in 2005 and terminated in 2010); Eaton Vance Insured Florida Plus Municipal Bond Fund (launched in 2002 and terminated in 2009); and Eaton Vance National Municipal Income Fund (launched in 1998 and terminated in 2009).

(A) APS Trustee.

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**Investment Adviser and Administrator of
Eaton Vance Senior Floating-Rate Trust
Eaton Vance Management**

Two International Place
Boston, MA 02110

Custodian

State Street Bank and Trust Company

200 Clarendon Street
Boston, MA 02116

Transfer Agent

American Stock Transfer & Trust Company

59 Maiden Lane
Plaza Level
New York, NY 10038

Independent Registered Public Accounting Firm

Deloitte & Touche LLP

200 Berkeley Street
Boston, MA 02116-5022

Eaton Vance Senior Floating-Rate Trust

**Two International Place
Boston, MA 02110**

2025-12/10

CE-FLRTSRC

Item 2. Code of Ethics

The registrant has adopted a code of ethics applicable to its Principal Executive Officer, Principal Financial Officer and Principal Accounting Officer. The registrant undertakes to provide a copy of such code of ethics to any person upon request, without charge, by calling 1-800-262-1122.

Item 3. Audit Committee Financial Expert

The registrant's Board has designated William H. Park, an independent trustee, as its audit committee financial expert. Mr. Park is a certified public accountant who is the Chief Financial Officer of Aveon Group, L.P. (an investment management firm). Previously, he served as the Vice Chairman of Commercial Industrial Finance Corp. (specialty finance company), as President and Chief Executive Officer of Prizm Capital Management, LLC (investment management firm), as Executive Vice President and Chief Financial Officer of United Asset Management Corporation (an institutional investment management firm) and as a Senior Manager at Price Waterhouse (now PricewaterhouseCoopers) (an independent registered public accounting firm).

Item 4. Principal Accountant Fees and Services

(a)-(d)

The following table presents aggregate fees billed to the registrant for the registrant's fiscal years ended October 31, 2009 and October 31, 2010 by the registrant's principal accountant, Deloitte & Touche LLP ("D&T"), for professional services rendered for the audit of the registrant's annual financial statements and fees billed for other services rendered by D&T during such periods.

| Fiscal Years Ended | 10/31/09 | 10/31/10 |
|-----------------------------------|------------------|------------------|
| Audit Fees | \$ 76,490 | \$ 76,490 |
| Audit-Related Fees ⁽¹⁾ | \$ 5,330 | \$ 5,330 |
| Tax Fees ⁽²⁾ | \$ 14,540 | \$ 14,540 |
| All Other Fees ⁽³⁾ | \$ 2,500 | \$ 1,400 |
| Total | \$ 98,860 | \$ 97,760 |

(1) Audit-related fees consist of the aggregate fees billed for assurance and related services that are reasonably related to the performance of the audit of the registrant's financial statements and are not reported under the category of audit fees and specifically include fees for the performance of certain agreed-upon procedures relating to the registrant's auction preferred shares.

(2) Tax fees consist of the aggregate fees billed for professional services rendered by the principal accountant relating to tax compliance, tax advice, and tax planning and specifically include fees for tax return preparation and other related tax compliance/planning matters

(3) All other fees consist of the aggregate fees billed for products and services provided by the registrant's principal accountant other than audit, audit-related, and tax services.

(e)(1) The registrant's audit committee has adopted policies and procedures relating to the pre-approval of services provided by the registrant's principal accountant (the "Pre-Approval Policies"). The Pre-Approval Policies establish a framework intended to assist the audit committee in the proper discharge of its pre-approval responsibilities. As a general matter, the Pre-Approval Policies (i) specify certain types of audit, audit-related, tax, and other services determined to be pre-approved by the audit committee; and (ii) delineate specific procedures governing the mechanics

of the pre-approval process, including the approval and monitoring of audit and non-audit service fees. Unless a service is specifically pre-approved under the Pre-Approval Policies, it must be separately pre-approved by the Audit Committee.

The Pre-Approval Policies and the types of audit and non-audit services pre-approved therein must be reviewed and ratified by the registrant's audit committee at least annually. The registrant's audit committee maintains full responsibility for the appointment, compensation, and oversight of the work of the registrant's principal accountant.

(e)(2) No services described in paragraphs (b)-(d) above were approved by the registrant's audit committee pursuant to the de minimis exception set forth in Rule 2-01 (c)(7)(i)(C) of Regulation S-X.

(f) Not applicable.

(g) The following table presents (i) the aggregate non-audit fees (i.e., fees for audit-related, tax, and other services) billed to the registrant by D&T for the registrant's fiscal years ended October 31, 2009 and October 31, 2010; and (ii) the aggregate non-audit fees (i.e., fees for audit-related, tax, and other services) billed to the Eaton Vance organization by D&T for the same time periods.

| Fiscal Years Ended | 10/31/09 | 10/31/10 |
|----------------------------------|-----------------|-----------------|
| Registrant | \$ 22,370 | \$ 21,270 |
| Eaton Vance⁽¹⁾ | \$ 280,861 | \$ 278,901 |

(1) Certain subsidiaries of Eaton Vance Corp. provide ongoing services to the registrant.

(h) The registrant's audit committee has considered whether the provision by the registrant's principal accountant of non-audit services to the registrant's investment adviser and any entity controlling, controlled by, or under common control with the adviser that provides ongoing services to the registrant that were not pre-approved pursuant to Rule 2-01(c)(7)(ii) of Regulation S-X is compatible with maintaining the principal accountant's independence.

Item 5. Audit Committee of Listed Registrants

The registrant has a separately-designated standing audit committee established in accordance with Section 3(a)(58)(A) of the Securities and Exchange Act of 1934, as amended. William H. Park (Chair), Lynn A. Stout and Ralph F. Verni are the members of the registrant's audit committee.

Item 6. Schedule of Investments

Please see schedule of investments contained in the Report to Stockholders included under Item 1 of this Form N-CSR.

Item 7. Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies

The Board of Trustees of the Trust has adopted a proxy voting policy and procedure (the Fund Policy), pursuant to which the Trustees have delegated proxy voting responsibility to the Fund's investment adviser and adopted the investment adviser's proxy voting policies and procedures (the Policies) which are described below. The Trustees will review the Fund's proxy voting records from time to time and will annually consider approving the Policies for the upcoming year. In the event that a conflict of interest arises between the Fund's shareholders and the investment adviser, the administrator, or any of their affiliates or any affiliate of the Fund, the investment adviser will generally refrain from voting the proxies related to the companies giving rise to such conflict until it consults with the Board's Special Committee except as contemplated under the Fund Policy. The Board's Special Committee will instruct the investment adviser on the appropriate course of action.

The Policies are designed to promote accountability of a company's management to its shareholders and to align the interests of management with those shareholders. An independent proxy voting service (Agent), currently Institutional Shareholder Services, Inc., has been retained to assist in the voting of proxies through the provision of vote analysis, implementation and recordkeeping and disclosure services. The investment adviser will generally vote proxies through the Agent. The Agent is required to vote all proxies and/or refer them back to the investment adviser pursuant to the Policies. It is generally the policy of the investment adviser to vote in accordance with the recommendation of the Agent. The Agent shall refer to the investment adviser proxies relating to mergers and restructurings, and the disposition of assets, termination, liquidation and mergers contained in mutual fund proxies. The investment adviser will normally vote against anti-takeover measures and other proposals designed to limit the ability of shareholders to act on possible transactions, except in the case of closed-end management investment companies. The investment adviser generally supports management on social and environmental proposals. The investment adviser may abstain from voting from time to time where it determines that the costs associated with voting a proxy outweighs the benefits derived from exercising the right to vote or the economic effect on shareholders interests or the value of the portfolio holding is indeterminable or insignificant.

In addition, the investment adviser will monitor situations that may result in a conflict of interest between the Fund's shareholders and the investment adviser, the administrator, or any of their affiliates or any affiliate of the Fund by maintaining a list of significant existing and prospective corporate clients. The investment adviser's personnel responsible for reviewing and voting proxies on behalf of the Fund will report any proxy received or expected to be received from a company included on that list to the personnel of the investment adviser identified in the Policies. If such personnel expect to instruct the Agent to vote such proxies in a manner inconsistent with the guidelines of the Policies or the recommendation of the Agent, the personnel will consult with members of senior management of the investment adviser to determine if a material conflict of interests exists. If it is determined that a material conflict does exist, the investment adviser will seek instruction on how to vote from the Special Committee.

Information on how the Fund voted proxies relating to portfolio securities during the most recent 12 month period ended June 30 is available (1) without charge, upon request, by calling 1-800-262-1122, and (2) on the Securities and Exchange Commission's website at <http://www.sec.gov>.

Item 8. Portfolio Managers of Closed-End Management Investment Companies

Scott H. Page, Craig P. Russ, Peter M. Campo and other Eaton Vance Management (EVM) investment professionals comprise the investment team responsible for the overall and day-to-day management of the Trust's investments as well as allocations of the Trust's assets between common and preferred stocks. Messrs. Page, Russ and Campo are the portfolio managers responsible for the day-to-day management of the Trust's investments.

Mr. Page has been an Eaton Vance portfolio manager since 1996 and is a Vice President of EVM and Boston Management and Research, an Eaton Vance subsidiary (BMR). He is head of Eaton Vance's Bank Loan Investment Group. Mr. Russ has been an Eaton Vance portfolio manager since 2001 and is a Vice President of EVM and BMR. Mr. Campo joined Eaton Vance in 2003 and is a Vice President of EVM and BMR. This information is provided as of the date of filing of this report.

The following tables show, as of the Trust's most recent fiscal year end, the number of accounts each portfolio manager managed in each of the listed categories and the total assets (in millions of dollars) in the accounts managed within each category. The table also shows the number of accounts with respect to which the advisory fee is based on the performance of the account, if any, and the total assets (in millions of dollars) in those accounts.

| | Number of All Accounts | Total Assets of All Accounts | Number of Accounts Paying a Performance Fee | Total Assets of Accounts Paying a Performance Fee |
|----------------------------------|------------------------------|------------------------------------|---|--|
| Scott H. Page | | | | |
| Registered Investment Companies | 12 | \$ 13,990.5 | 0 | \$ 0 |
| Other Pooled Investment Vehicles | 6 | \$ 6,055.8 | 1 | \$ 486.7 |
| Other Accounts | 2 | \$ 1,497.9 | 0 | \$ 0 |
| Craig R. Russ | | | | |
| Registered Investment Companies | 8 | \$ 11,691.0 | 0 | \$ 0 |
| Other Pooled Investment Vehicles | 1 | \$ 3,386.0 | 0 | \$ 0 |
| Other Accounts | 1 | \$ 1,016.4 | 0 | \$ 0 |
| Peter M. Campo | | | | |
| Registered Investment Companies | 1 | \$ 786.4 | 0 | \$ 0 |
| Other Pooled Investment Vehicles | 0 | \$ 0 | 0 | \$ 0 |
| Other Accounts | 0 | \$ 0 | 0 | \$ 0 |

The following table shows the dollar range of Trust shares beneficially owned by each portfolio manager as of the Trust's most recent fiscal year end.

| Portfolio Manager | Dollar Range of Equity Securities Owned in the Trust |
|-------------------|--|
| Scott H. Page | \$ 100,001 - \$500,000 |
| Craig P. Russ | None |
| Peter M. Campo | None |

Potential for Conflicts of Interest. It is possible that conflicts of interest may arise in connection with a portfolio manager's management of the Trust's investments on the one hand and investments of other accounts for which a portfolio manager is responsible on the other. For example, a portfolio manager may have conflicts of interest in allocating management time, resources and investment opportunities among the Trust and other accounts he or she advises. In addition, due to differences in the investment strategies or restrictions between the Trust and the other accounts, a portfolio manager may take action with respect to another account that differs from the action taken with respect to the Trust. In some cases, another account managed by a portfolio manager may compensate the investment adviser or sub-adviser based on the performance of the securities held by that account. The existence of such a performance based fee may create additional conflicts of interest for a portfolio manager in the allocation of management time, resources and investment opportunities. Whenever conflicts of interest arise, a portfolio manager will endeavor to exercise his or her discretion in a manner that he or she believes is equitable to all interested persons. EVM has adopted several policies and procedures designed to address these potential conflicts including: a code of ethics; and policies which govern the investment adviser's trading practices, including among other things the aggregation and allocation of trades among clients, brokerage allocation, cross trades and best execution.

Compensation Structure for EVM

Compensation of EVM's portfolio managers and other investment professionals has three primary components: (1) a base salary, (2) an annual cash bonus, and (3) annual stock-based compensation consisting of options to purchase shares of EVC's nonvoting common stock and/or restricted shares of EVC's nonvoting common stock. EVM's investment professionals also receive certain retirement, insurance and other benefits that are broadly available to EVM's employees. Compensation of EVM's investment professionals is reviewed primarily on an annual basis. Cash bonuses, stock-based compensation awards, and adjustments in base salary are typically paid or put into effect at or shortly after the October 31st fiscal year end of EVC.

Method to Determine Compensation. EVM compensates its portfolio managers based primarily on the scale and complexity of their portfolio responsibilities and the total return performance of managed funds and accounts versus appropriate peer groups or benchmarks. In addition to rankings within peer groups of funds on the basis of absolute performance, consideration may also be given to relative risk-adjusted performance. Risk-adjusted performance measures include, but are not limited to, the Sharpe Ratio. Performance is normally based on periods ending on the September 30th preceding fiscal year end. Fund performance is normally evaluated primarily versus peer groups of funds as determined by Lipper Inc. and/or Morningstar, Inc. When a fund's peer group as determined by Lipper or Morningstar is deemed by EVM's management not to provide a fair comparison, performance may instead be evaluated primarily against a custom peer group. In evaluating the performance of a fund and its manager, primary emphasis is normally placed on three-year performance, with secondary consideration of performance over longer and shorter periods. For funds that are tax-managed or otherwise have an objective of after-tax returns, performance is measured net of taxes. For other funds, performance is evaluated on a pre-tax basis. For funds with an investment objective other than total return (such as current income), consideration will also be given to the fund's success in achieving its objective. For managers responsible for multiple funds and accounts, investment performance is evaluated on an aggregate basis, based on averages or weighted averages among managed funds and accounts. Funds and accounts that have performance-based advisory fees are not accorded disproportionate weightings in measuring aggregate portfolio manager performance.

The compensation of portfolio managers with other job responsibilities (such as heading an investment group or providing analytical support to other portfolios) will include consideration of the scope of such responsibilities and the managers' performance in meeting them.

EVM seeks to compensate portfolio managers commensurate with their responsibilities and performance, and competitive with other firms within the investment management industry. EVM participates in investment-industry compensation surveys and utilizes survey data as a factor in determining salary, bonus and stock-based compensation levels for portfolio managers and other investment professionals. Salaries, bonuses and stock-based compensation are also influenced by the operating performance of EVM and its parent company. The overall annual cash bonus pool is based on a substantially fixed percentage of pre-bonus operating income. While the salaries of EVM's portfolio managers are comparatively fixed, cash bonuses and stock-based compensation may fluctuate significantly from year to year, based on changes in manager performance and other factors as described herein. For a high performing portfolio manager, cash bonuses and stock-based compensation may represent a substantial portion of total compensation.

Item 9. Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers

No such purchases this period.

Item 10. Submission of Matters to a Vote of Security Holders

No Material Changes.

Item 11. Controls and Procedures

(a) It is the conclusion of the registrant's principal executive officer and principal financial officer that the effectiveness of the registrant's current disclosure controls and procedures (such disclosure controls and procedures having been evaluated within 90 days of the date of this filing) provide reasonable assurance that the information required to be disclosed by the registrant has been recorded, processed, summarized and reported within the time period specified in the Commission's rules and forms and that the information required to be disclosed by the registrant has been accumulated and communicated to the registrant's principal executive officer and principal financial officer in order to allow timely decisions regarding required disclosure.

(b) There have been no changes in the registrant's internal controls over financial reporting during the second fiscal quarter of the period covered by this report that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 12. Exhibits

(a)(1) Registrant's Code of Ethics Not applicable (please see Item 2).

(a)(2)(i) Treasurer's Section 302 certification.

(a)(2)(ii) President's Section 302 certification.

(b) Combined Section 906 certification.

Signatures

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Eaton Vance Senior Floating-Rate Trust

By: /s/ Scott H. Page
Scott H. Page
President

Date: December 15, 2010

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Barbara E. Campbell
Barbara E. Campbell
Treasurer

Date: December 15, 2010

By: /s/ Scott H. Page
Scott H. Page
President

Date: December 15, 2010