

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%
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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
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Allison Transmission, Inc.

3,822	Term Loan, 3.03%, Maturing August 7, 2014	3,675,565
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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
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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*	Borrower/Tranche Description	Value
(000 s omitted)		
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
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Mediacom Illinois, LLC

3,655	Term Loan, 2.00%, Maturing January 31, 2015	3,469,971
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990	Term Loan, 5.50%, Maturing March 31, 2017	983,194
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Mediacom, LLC

823	Term Loan, 4.50%, Maturing October 23, 2017	810,593
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ProSiebenSat.1 Media AG

EUR 93	Term Loan, 2.39%, Maturing July 2, 2014	117,837
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EUR 904	Term Loan, 2.39%, Maturing July 2, 2014	1,151,077
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EUR 410	Term Loan, 3.52%, Maturing March 6, 2015	458,466
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EUR 2,187	Term Loan, 2.77%, Maturing June 26, 2015	2,803,922
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EUR 97	Term Loan, 2.77%, Maturing July 3, 2015	124,613
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EUR 410	Term Loan, 3.77%, Maturing March 4, 2016	458,467
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EUR 378	Term Loan, 8.14%, Maturing March 6, 2017 ⁽³⁾	377,332
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EUR 520	Term Loan - Second Lien, 4.89%, Maturing September 2, 2016	543,786
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UPC Broadband Holding B.V.

1,686	Term Loan, 4.25%, Maturing December 30, 2016	1,650,015
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EUR 2,353	Term Loan, 4.37%, Maturing December 31, 2016	3,104,310
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1,264	Term Loan, 4.25%, Maturing December 29, 2017	1,232,163
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EUR 2,697	Term Loan, 4.62%, Maturing December 31, 2017	3,565,772
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Virgin Media Investment Holding

GBP 1,000	Term Loan, 4.78%, Maturing December 31, 2015	1,597,510
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YPSO Holding SA

EUR 252	Term Loan, 4.59%, Maturing June 16, 2014 ⁽³⁾	283,473
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EUR 211	Term Loan, 4.60%, Maturing June 16, 2014 ⁽³⁾	237,618
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EUR 547	Term Loan, 4.60%, Maturing June 16, 2014 ⁽³⁾	615,721
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\$ 54,866,461

Chemicals and Plastics 7.0%

Arizona Chemical, Inc.

500	Term Loan - Second Lien, 5.80%, Maturing February 28, 2014	\$ 499,375
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Brenntag Holding GmbH and Co. KG

1,493	Term Loan, 4.02%, Maturing January 20, 2014	1,504,500
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220	Term Loan, 4.03%, Maturing January 20, 2014	221,765
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1,000	Term Loan - Second Lien, 6.45%, Maturing July 17, 2015	1,007,500
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Celanese Holdings, LLC

1,481	Term Loan, 3.29%, Maturing October 31, 2016	1,489,626
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Hexion Specialty Chemicals, Inc.

484	Term Loan, 4.06%, Maturing May 5, 2015	470,447
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768	Term Loan, 4.06%, Maturing May 5, 2015	751,049
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1,726	Term Loan, 4.06%, Maturing May 5, 2015	1,687,254
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Huntsman International, LLC

2,136	Term Loan, 1.78%, Maturing April 21, 2014	2,088,430
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855	Term Loan, 2.52%, Maturing June 30, 2016	839,083
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INEOS Group

2,766	Term Loan, 7.50%, Maturing December 16, 2013	2,832,668
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2,672	Term Loan, 8.00%, Maturing December 16, 2014	2,736,340
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EUR	1,250	Term Loan, 9.00%, Maturing December 16, 2015	1,748,014
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ISP Chemco, Inc.

1,541	Term Loan, 1.81%, Maturing June 4, 2014	1,507,469
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Kraton Polymers, LLC

1,871	Term Loan, 2.31%, Maturing May 13, 2013	1,833,372
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Lyondell Chemical Co.

673	Term Loan, 5.50%, Maturing April 8, 2016	679,836
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MacDermid, Inc.

496	Term Loan, 2.26%, Maturing April 12, 2014	474,065
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EUR	687	Term Loan, 3.05%, Maturing April 11, 2014	892,029
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Millenium Inorganic Chemicals

1,309	Term Loan, 2.54%, Maturing May 15, 2014	1,257,648
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Momentive Performance Material

1,660	Term Loan, 2.56%, Maturing December 4, 2013	1,621,342
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Nalco Co.

1,400	Term Loan, 4.50%, Maturing October 5, 2017	1,417,938
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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
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
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Goodman Global Holdings, Inc.

1,800	Term Loan, Maturing October 28, 2016 ⁽⁷⁾	1,826,775
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Jarden Corp.

1,657	Term Loan, 3.54%, Maturing January 26, 2015	1,660,352
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Manitowoc Company, Inc. (The)

1,366	Term Loan, 8.00%, Maturing November 6, 2014	1,371,616
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Polymer Group, Inc.

1,909	Term Loan, 7.00%, Maturing November 24, 2014	1,911,807
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RBS Global, Inc.

776	Term Loan, 2.56%, Maturing July 19, 2013	750,222
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3,785	Term Loan, 2.81%, Maturing July 19, 2013	3,685,484
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RGIS Holdings, LLC

2,547	Term Loan, 2.78%, Maturing April 30, 2014	2,355,988
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127	Term Loan, 2.79%, Maturing April 30, 2014	117,799
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Service Master Co.

136	Term Loan, 2.76%, Maturing July 24, 2014	129,201
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1,364	Term Loan, 2.76%, Maturing July 24, 2014	1,297,394
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US Investigations Services, Inc.

987	Term Loan, 3.29%, Maturing February 21, 2015	924,308
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823	Term Loan, 7.75%, Maturing February 21, 2015	827,052
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Vertrue, Inc.

804	Term Loan, 3.29%, Maturing August 16, 2014	723,993
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\$ 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
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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
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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
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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
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Smurfit-Stone Container Corp.

2,419	Term Loan, 6.75%, Maturing February 22, 2016	2,445,546
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\$ 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
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WM. Bolthouse Farms, Inc.

1,716	Term Loan, 5.50%, Maturing February 11, 2016	1,718,950
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\$ 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

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		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
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\$ 17,667,941

Food Service 5.1%

AFC Enterprises, Inc.

255	Term Loan, 7.00%, Maturing May 11, 2013	\$ 255,655
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Aramark Corp.

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

1,241	Term Loan, 12.00%, Maturing April 21, 2015 ⁽³⁾	1,165,170
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117	Term Loan, 7.39%, Maturing April 22, 2015 ⁽³⁾	90,434
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Burger King Corp.

4,825	Term Loan, 6.25%, Maturing October 19, 2016	4,875,059
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CBRL Group, Inc.

906	Term Loan, 1.96%, Maturing April 29, 2013	897,793
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579	Term Loan, 2.96%, Maturing April 27, 2016	574,143
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Denny's, Inc.

750	Term Loan, 6.50%, Maturing September 20, 2016	752,344
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DineEquity, Inc.

1,950	Term Loan, 6.00%, Maturing October 19, 2017	1,972,751
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NPC International, Inc.

308	Term Loan, 2.03%, Maturing May 3, 2013	297,018
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OSI Restaurant Partners, LLC

264	Term Loan, 3.90%, Maturing June 14, 2013	248,671
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2,864		2,697,743
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		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
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Alliance Healthcare Services

1,216	Term Loan, 5.50%, Maturing June 1, 2016	1,207,834
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American Medical Systems

39	Term Loan, 2.56%, Maturing July 20, 2012	37,890
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Ardent Medical Services, Inc.

1,144	Term Loan, 6.50%, Maturing September 15, 2015	1,137,098
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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
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EUR	1,188	Term Loan, 3.81%, Maturing March 25, 2015	1,611,428
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Bright Horizons Family Solutions, Inc.

929	Term Loan, 7.50%, Maturing May 28, 2015	933,268
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Cardinal Health 409, Inc.

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