

EATON VANCE SENIOR FLOATING RATE TRUST
Form N-CSR
December 28, 2011

**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, 2011

Date of Reporting Period

Item 1. Reports to Stockholders

Eaton Vance
Senior Floating-Rate Trust (EFR)

Annual Report
October 31, 2011

Fund 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.

Annual Report October 31, 2011

Eaton Vance

Senior Floating-Rate Trust

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Eaton Vance
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Management's Discussion of Fund Performance

Economic and Market Conditions

The S&P/LSTA Leveraged Loan Index (the Index),² the broad barometer for the floating-rate loan market, posted a total return of 3.16% for the 12 months ending October 31, 2011, reflecting the widespread uncertainty and volatility that affected virtually all global investment markets.

The period began on an upbeat note, with the floating-rate loan market generating strong gains and driven by favorable technical conditions and improving issuer fundamentals. Heavy inflows into prime rate mutual funds, increased refinancing activity and a general improvement in the overall tone of the market bolstered demand and, in turn, lifted prices. Issuer fundamentals also improved as various measures of earnings growth rose. Furthermore, default rates remained low.

The loan market's strong performance continued in April, although it began to falter in May and June. That is when the new issue supply of floating-rate loans increased and demand dwindled in response to growing uncertainty about the prospects for both the U.S. and global economies. In late summer, the floating-rate loan market performed poorly, coming under significant pressure amid a darkening of macroeconomic headlines. In particular, the downgrade of the U.S. credit rating by Standard & Poor's, renewed stress in the European sovereign debt saga and several disappointing global economic numbers provided a gloomy economic backdrop. Loans were also challenged by the Federal Reserve's pledge to keep rates low until at least mid-2013, which tempered individual investors' demand for the asset class. In October of 2011, the floating-rate loan market rebounded somewhat as worries about higher interest rates resurfaced and investors' appetite for riskier asset classes improved.

Even though the prospects for global economy dimmed during the period, issuer fundamentals remained solid. As one measure of that, the trailing 12-month default rates by principal amount stood at 0.32% as of October 31, 2011, a low rate when viewed historically.

Fund Performance

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. For the fiscal year ending October 31, 2011, the Trust returned 6.69% for the 12-month period, outperforming its benchmark, the Index. Relative to the Index, the Trust benefited from its general bias toward the higher-quality end of the floating-rate loan market because lower-quality B-rated⁷ loans, and more notably, CCC-rated securities, underperformed for the 12-month period overall. Although the Trust's higher-quality positioning acted as a headwind early on when investors favored riskier segments of the floating-rate loan market, the emphasis on higher-quality securities bolstered performance during most of the second half of the period when investors' appetite for risk waned.

In terms of sector selection, results were favorable overall. The Trust was helped by its underweighted positions in publishing and utilities, sectors that lagged the Index during the 12-month period. The benefits of underweighting these sectors more than offset what was lost by underweighting financial intermediaries, telecommunications, and lodging and casinos, all of which outpaced the benchmark for the year.

The Trust's comparatively broad diversification also aided relative performance. The Index's larger-cap, more-liquid names, which experienced the greatest selling pressure in the second half of the period, underperformed the floating-rate loan market as a whole for the 12-month period. Against that backdrop, the Trust's diversification beyond the larger-cap, more-liquid issues was a plus.

Management's use of leverage and modest high-yield bond exposure benefited the Trust's relative performance, as floating-rate loans acquired with borrowings were bolstered by favorable conditions in the credit markets during the first half of the period and high-yield bonds typically outpaced the Index for the year.

See Endnotes and Additional Disclosures in this report.

Past performance is no guarantee of future results. Returns are historical and are calculated by determining the percentage change in net asset value (NAV) or market price (as applicable) with all distributions reinvested. Fund performance at market price will differ from its results at NAV due to factors such as changing perceptions about the Fund, market conditions, fluctuations in supply and demand for Fund shares, or changes in Fund distributions.

Investment return and principal value will fluctuate so that shares, when sold, may be worth more or less than their original cost. Performance less than one year is cumulative. Performance is for the stated time period only; due to market volatility, current Fund 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.

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October 31, 2011

Portfolio Managers Scott H. Page, CFA; Craig P. Russ; Peter M. Campo, CFA

Performance^{2,3}

% Average Annual Total Returns	Inception Date	1 Year	5 Years	Since Inception
Fund at NAV	11/28/2003	6.69%	3.78%	4.67%
Fund at Market		0.28	3.78	4.34
S&P/LSTA Leveraged Loan Index	11/28/2003	3.16%	4.42%	4.85%

% Premium/Discount to NAV

2.41%

Distributions⁴

Total Distributions per share for the period	\$1.062
Distribution Rate at NAV	6.68%
Distribution Rate at Market Price	6.85%

% Total Leverage⁵

Auction Preferred Shares (APS)	16.42%
Borrowings	20.63

See Endnotes and Additional Disclosures in this report.

Past performance is no guarantee of future results. Returns are historical and are calculated by determining the percentage change in net asset value (NAV) or market price (as applicable) with all distributions reinvested. Fund performance at market price will differ from its results at NAV due to factors such as changing perceptions about the Fund, market conditions, fluctuations in supply and demand for Fund shares, or changes in Fund distributions.

Investment return and principal value will fluctuate so that shares, when sold, may be worth more or less than their original cost. Performance less than one year is cumulative. Performance is for the stated time period only; due to market volatility, current Fund 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
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 Fund Profile

Top 10 Holdings (% of total investments)⁶

Community Health Systems, Inc.	1.3%
Intelsat Jackson Holdings SA	1.3
Rite Aid Corp.	1.2
SunGard Data Systems, Inc.	1.1
Aramark Corp.	1.1
HCA, Inc.	1.1
UPC Broadband Holding B.V./UPC Financing Partnership	0.9
Nielsen Finance, LLC	0.9
Health Management Associates, Inc.	0.9
Asurion Corp.	0.8
Total	10.6%

Top 10 Sectors (% of total investments)⁶

Health Care	11.4%
Business Equipment and Services	9.1
Electronics/Electrical	5.5
Leisure Goods/Activities/Movies	5.2
Cable and Satellite Television	5.0
Publishing	4.5
Financial Intermediaries	4.4
Automotive	4.3
Chemicals and Plastics	4.2
Food Service	3.6
Total	57.2%

Credit Quality (% of loan holdings)⁷

See Endnotes and Additional Disclosures in this report.

Eaton Vance

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Endnotes and Additional Disclosures

- ¹ The views expressed in this report are those of portfolio manager(s) and are current only through the date stated at the top of this page. These views are subject to change at any time based upon market or other conditions, and Eaton Vance and the Fund(s) disclaim any responsibility to update such views. These views may not be relied upon as investment advice and, because investment decisions are based on many factors, may not be relied upon as an indication of trading intent on behalf of any Eaton Vance fund. This commentary may contain statements that are not historical facts, referred to as forward looking statements. The Fund's actual future results may differ significantly from those stated in any forward looking statement, depending on factors such as changes in securities or financial markets or general economic conditions, the volume of sales and purchases of Fund shares, the continuation of investment advisory, administrative and service contracts, and other risks discussed from time to time in the Fund's filings with the Securities and Exchange Commission.
- ² S&P/LSTA Leveraged Loan Index is an unmanaged index of the institutional leveraged loan market. Index returns do not reflect the effect of any applicable sales charges, commissions, expenses, taxes or leverage, as applicable. It is not possible to invest directly in an index.
- ³ Performance results reflect the effects of leverage. Absent an expense waiver by the investment adviser, the returns would be lower.
- ⁴ The Distribution Rate is based on the Fund's last regular distribution per share in the period (annualized) divided by the Fund's NAV or market price at the end of the period. The Fund's distributions may be comprised of ordinary income, net realized capital gains and return of capital.
- ⁵ APS leverage represents the liquidation value of the Fund's APS outstanding as a percentage of Fund net assets applicable to common shares plus APS and borrowings outstanding. Use of leverage creates an opportunity for income, but creates risks including greater price volatility. The cost of leverage rises and falls with changes in short-term interest rates. The Fund is required to maintain prescribed asset coverage for its APS and borrowings, which could be reduced if Fund asset values decline.
- ⁶ Excludes cash and cash equivalents.
- ⁷ Ratings are based on Moody's, S&P or Fitch, as applicable. 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.
- ⁸ Diversification cannot guarantee a profit or eliminate the risk of a loss.

Fund profile subject to change due to active management.

Eaton Vance
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Portfolio of Investments

Senior Floating-Rate Interests 144.9%

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Aerospace and Defense 2.8%		
Booz Allen Hamilton, Inc.		
Term Loan, 4.00%, Maturing August 3, 2017	473	\$ 473,437
DAE Aviation Holdings, Inc.		
Term Loan, 5.43%, Maturing July 31, 2014	887	862,257
Term Loan, 5.43%, Maturing July 31, 2014	925	899,738
Ducommun, Inc.		
Term Loan, 5.50%, Maturing June 28, 2017	524	521,069
Dundee Holdco 4, Ltd.		
Term Loan, 4.25%, Maturing May 15, 2015	391	323,097
Term Loan, 4.75%, Maturing May 13, 2016	391	323,097
Term Loan - Second Lien, 6.71%, Maturing January 13, 2016	500	581,524
IAP Worldwide Services, Inc.		
Term Loan, 9.25%, Maturing December 28, 2012	1,777	1,741,361
Sequa Corp.		
Term Loan, 3.62%, Maturing December 3, 2014	794	766,813
Term Loan, Maturing December 3, 2014 ⁽²⁾	250	250,208
Spirit AeroSystems, Inc.		
Term Loan, 3.49%, Maturing September 30, 2016	1,549	1,546,722
TASC, Inc.		
Term Loan, 4.50%, Maturing December 18, 2015	1,444	1,440,203
TransDigm, Inc.		
Term Loan, 4.00%, Maturing February 14, 2017	3,134	3,127,999
Wesco Aircraft Hardware Corp.		
Term Loan, 4.25%, Maturing April 7, 2017	396	397,091
Wyle Services Corp.		
Term Loan, 5.75%, Maturing March 27, 2017	853	835,043

\$ 14,089,659

Air Transport 0.3%

Evergreen International Aviation, Inc.

Term Loan, 11.50%, Maturing July 5, 2015 875 \$ 840,000

Orbitz Worldwide, Inc.

Term Loan, 3.31%, Maturing July 25, 2014 1,063 925,400

\$ 1,765,400

Automotive 6.1%

Allison Transmission, Inc.

Term Loan, 2.75%, Maturing August 7, 2014 3,693 \$ 3,583,926

Autoparts Holdings, Ltd.

Term Loan, 6.50%, Maturing July 28, 2017 400 400,500

Chrysler Group, LLC

Term Loan, 6.00%, Maturing May 24, 2017 4,989 4,728,470

Delphi Corp.

Term Loan, 3.50%, Maturing March 31, 2017 1,924 1,924,319

Federal-Mogul Corp.

Term Loan, 2.18%, Maturing December 29, 2014 2,432 2,305,821

Term Loan, 2.18%, Maturing December 28, 2015 3,056 2,897,605

Goodyear Tire & Rubber Co.

Term Loan - Second Lien, 1.93%, Maturing April 30, 2014 5,400 5,285,250

HHI Holdings, LLC

Term Loan, 7.00%, Maturing March 21, 2017 522 515,845

Metaldyne, LLC

Term Loan, 5.25%, Maturing May 18, 2017 2,193 2,173,316

SRAM, LLC

Term Loan, 4.76%, Maturing June 7, 2018 1,294 1,287,867

Term Loan - Second Lien, 8.50%, Maturing December 7, 2018 500 502,500

Tomkins, LLC

Term Loan, 4.25%, Maturing September 21, 2016 1,938 1,937,334

TriMas Corp.

Term Loan, 4.25%, Maturing June 21, 2017 1,047 1,027,737

Veyance Technologies, Inc.

Term Loan, 2.75%, Maturing July 31, 2014 236 214,049

Term Loan, 2.75%, Maturing July 31, 2014 1,647 1,494,449

Term Loan - Second Lien, 6.00%, Maturing July 31, 2015 775 654,875

\$ 30,933,863

Building and Development 2.3%

Armstrong World Industries, Inc.

Term Loan, 4.00%, Maturing March 9, 2018	647	\$ 641,495
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Beacon Sales Acquisition, Inc.

Term Loan, 2.33%, Maturing September 30, 2013	1,069	1,030,807
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Forestar Real Estate Group, Inc.

Revolving Loan, 0.49%, Maturing August 6, 2013 ⁽³⁾	244	229,723
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Term Loan, 6.50%, Maturing August 6, 2015	2,240	2,150,514
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Goodman Global Holdings, Inc.

Term Loan, 5.75%, Maturing October 28, 2016	1,676	1,678,192
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NCI Building Systems, Inc.

Term Loan, 8.00%, Maturing April 18, 2014	246	239,993
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November 2005 Land Investors, LLC

Term Loan, 0.00%, Maturing March 29, 2013 ⁽⁴⁾⁽⁵⁾	305	45,726
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Panolam Industries International

Term Loan, 8.25%, Maturing December 31, 2013	1,472	1,343,158
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See Notes to Financial Statements.

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Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Building and Development (continued)		
RE/MAX International, Inc.		
Term Loan, 5.50%, Maturing April 15, 2016	1,745	\$ 1,736,108
Realogy Corp.		
Term Loan, 3.19%, Maturing October 10, 2013	138	129,200
Term Loan, 3.27%, Maturing October 10, 2013	662	619,966
South Edge, LLC		
Term Loan, 0.00%, Maturing October 31, 2009 ⁽⁶⁾	1,588	1,504,156
		\$ 11,349,038
Business Equipment and Services 14.2%		
Acosta, Inc.		
Term Loan, 4.75%, Maturing March 1, 2018	1,269	\$ 1,255,939
Advantage Sales & Marketing, Inc.		
Term Loan, 5.25%, Maturing December 18, 2017	1,836	1,808,583
Affinion Group, Inc.		
Term Loan, 5.00%, Maturing October 10, 2016	4,612	4,260,340
Allied Security Holdings, LLC		
Term Loan, 5.00%, Maturing February 3, 2017	572	569,264
Altegrity, Inc.		
Term Loan, 7.75%, Maturing February 20, 2015	767	757,256
Term Loan, 2.99%, Maturing February 21, 2015	784	724,834
Audatex North America, Inc.		
Term Loan, 3.31%, Maturing May 16, 2014	EUR 721	983,136
BAR/BRI Review Courses, Inc.		

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Term Loan, 6.00%, Maturing June 16, 2017 Brand Energy and Infrastructure Services, Inc.	725	710,500
Term Loan, 2.63%, Maturing February 7, 2014	2,667	2,160,369
Term Loan, 3.63%, Maturing February 7, 2014 Brickman Group Holdings, Inc.	732	607,349
Term Loan, 7.25%, Maturing October 14, 2016 Brock Holdings III, Inc.	1,166	1,166,188
Term Loan, 6.00%, Maturing March 16, 2017 ClientLogic Corp.	1,144	1,092,759
Term Loan, 7.14%, Maturing January 30, 2017 Crawford & Company	1,567	1,427,657
Term Loan, 5.00%, Maturing October 30, 2013 DynCorp International, LLC	1,131	1,122,553
Term Loan, 6.25%, Maturing July 5, 2016 Endurance International Group, Inc. (The)	738	729,959
Term Loan, 8.00%, Maturing October 3, 2016 Fidelity National Information Services, Inc.	825	812,625
Term Loan, 5.25%, Maturing July 18, 2016 Go Daddy Group, Inc. (The)	1,503	1,516,609
Term Loan, Maturing September 29, 2017 ⁽²⁾ IMS Health, Inc.	1,450	1,450,906
Term Loan, 4.50%, Maturing August 25, 2017 KAR Auction Services, Inc.	1,281	1,280,516
Term Loan, 5.00%, Maturing May 19, 2017 Kronos, Inc.	2,843	2,842,875
Term Loan, 2.12%, Maturing June 11, 2014	1,001	958,097
Term Loan, 6.12%, Maturing June 11, 2015 Language Line, LLC	1,000	937,500
Term Loan, 6.25%, Maturing June 20, 2016 Meritas, LLC	2,117	2,101,569
Term Loan, 7.50%, Maturing July 28, 2017 Mitchell International, Inc.	804	792,309
Term Loan - Second Lien, 5.63%, Maturing March 30, 2015 MSCI, Inc.	1,000	940,000
Term Loan, 3.75%, Maturing March 14, 2017 N.E.W. Holdings I, LLC	2,901	2,933,762
Term Loan, 6.00%, Maturing March 23, 2016 National CineMedia, LLC	1,598	1,562,887
Term Loan, 1.84%, Maturing February 13, 2015 Protection One Alarm Monitoring, Inc.	2,086	2,027,098
Term Loan, 6.00%, Maturing June 4, 2016 Quantum Corp.	1,517	1,505,737
Term Loan, 3.83%, Maturing July 14, 2014 Quintiles Transnational Corp.	73	71,286
Term Loan, 5.00%, Maturing June 8, 2018 Sabre, Inc.	4,314	4,276,438
Term Loan, 2.30%, Maturing September 30, 2014 Sensus USA, Inc.	5,937	5,223,455
Term Loan, 4.75%, Maturing May 9, 2017	672	661,551
Term Loan - Second Lien, 8.50%, Maturing May 9, 2018 Softlayer Technologies, Inc.	1,000	970,000

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Term Loan, 7.25%, Maturing November 5, 2016 SunGard Data Systems, Inc.	645	622,546
Term Loan, 1.99%, Maturing February 28, 2014	2,166	2,139,634
Term Loan, 3.90%, Maturing February 26, 2016 SymphonyIRI Group, Inc.	6,642	6,583,661
Term Loan, 5.00%, Maturing December 1, 2017 TransUnion, LLC	823	813,680
Term Loan, 4.75%, Maturing February 12, 2018 Travelport, LLC	1,891	1,878,684
Term Loan, 4.87%, Maturing August 21, 2015	553	482,679
Term Loan, 4.87%, Maturing August 21, 2015	2,856	2,494,052
Term Loan, 6.05%, Maturing August 21, 2015	EUR 741	879,446

See Notes to Financial Statements.

Eaton Vance
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Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Business Equipment and Services (continued)		
U.S. Security Holdings, Inc.		
Term Loan, 1.50%, Maturing July 28, 2017 ⁽³⁾	118	\$ 116,402
Term Loan, 6.00%, Maturing July 28, 2017	607	597,723
West Corp.		
Term Loan, 4.61%, Maturing July 15, 2016	1,943	1,930,363
Term Loan, 4.63%, Maturing July 15, 2016	683	678,791
		\$ 71,459,567
Cable and Satellite Television 7.9%		
Atlantic Broadband Finance, LLC		
Term Loan, 4.00%, Maturing March 8, 2016	1,279	\$ 1,260,294
BBHI Acquisition, LLC		
Term Loan, 4.50%, Maturing December 14, 2017	1,241	1,234,422
Bragg Communications, Inc.		
Term Loan, 2.82%, Maturing August 31, 2014	2,064	2,002,080
Cequel Communications, LLC		
Term Loan, 2.24%, Maturing November 5, 2013	2,135	2,108,024
Charter Communications Operating, LLC		
Term Loan, 3.62%, Maturing September 6, 2016	990	984,975
Crown Media Holdings, Inc.		
Term Loan, 5.75%, Maturing July 14, 2018	524	518,451
CSC Holdings, Inc.		
Term Loan, 1.99%, Maturing March 29, 2016	2,864	2,842,159
Insight Midwest Holdings, LLC		

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Term Loan, 1.99%, Maturing April 7, 2014		3,157	3,132,079
Lavena Holdings 4 GmbH			
Term Loan, 4.20%, Maturing March 6, 2015	EUR	369	435,423
Term Loan, 4.45%, Maturing March 4, 2016	EUR	369	435,423
Term Loan, 8.83%, Maturing March 6, 2017 ⁽⁷⁾	EUR	391	315,945
Term Loan - Second Lien, 5.58%, Maturing September 2, 2016	EUR	520	507,217
MCC Iowa, LLC			
Term Loan, 1.95%, Maturing January 30, 2015		5,615	5,334,645
Mediacom, LLC			
Term Loan, 4.50%, Maturing October 23, 2017		815	793,506
Mediacom Broadband, LLC			
Term Loan, 4.50%, Maturing October 23, 2017		1,457	1,432,893
Mediacom Illinois, LLC			
Term Loan, 1.95%, Maturing January 30, 2015		3,617	3,422,616
Term Loan, 5.50%, Maturing March 31, 2017		980	970,507
NDS Finance, Ltd.			
Term Loan, 4.00%, Maturing March 12, 2018		1,343	1,321,422
P7S1 Broadcasting Holding II B.V.			
Term Loan, 4.03%, Maturing July 1, 2016	EUR	1,781	2,327,527
UPC Broadband Holding B.V.			
Term Loan, 5.11%, Maturing December 31, 2016	EUR	2,353	3,132,388
Term Loan, 5.36%, Maturing December 31, 2017	EUR	1,619	2,167,389
UPC Financing Partnership			
Term Loan, 3.87%, Maturing December 30, 2016		409	397,602
Term Loan, 3.74%, Maturing December 29, 2017		1,264	1,223,076
Term Loan, Maturing December 31, 2017 ⁽²⁾		375	372,188
YPSO Holding SA			
Term Loan, 4.87%, Maturing June 6, 2016 ⁽⁷⁾	EUR	204	240,182
Term Loan, 4.87%, Maturing June 6, 2016 ⁽⁷⁾	EUR	243	286,533
Term Loan, 4.87%, Maturing June 6, 2016 ⁽⁷⁾	EUR	497	585,539
			\$ 39,784,505

Chemicals and Plastics 6.4%

Arizona Chemical, Inc.

Term Loan, 4.75%, Maturing November 21, 2016 325 \$ 325,929

Ashland, Inc.

Term Loan, 3.75%, Maturing August 23, 2018 1,950 1,961,374

General Chemical Corp.

Term Loan, 5.00%, Maturing October 6, 2015 555 551,180

Houghton International, Inc.

Term Loan, 6.75%, Maturing January 29, 2016 817 819,381

Huntsman International, LLC

Term Loan, 1.83%, Maturing April 21, 2014 573 563,440

Term Loan, 2.52%, Maturing June 30, 2016 855 830,006

Term Loan, 2.80%, Maturing April 19, 2017 1,563 1,513,975

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Ineos Holdings, Ltd.			
Term Loan, 9.00%, Maturing June 16, 2015	EUR	1,250	1,653,521
INEOS US Finance, LLC			
Term Loan, 7.50%, Maturing December 16, 2013		1,723	1,772,387
Term Loan, 8.00%, Maturing December 16, 2014		1,665	1,713,166
MacDermid, Inc.			
Term Loan, 2.25%, Maturing April 11, 2014		461	449,194
Momentive Performance Materials, Inc. (Nautilus)			
Term Loan, 3.75%, Maturing May 5, 2015		3,143	2,975,434
Momentive Specialty Chemicals, Inc.			
Term Loan, 4.00%, Maturing May 5, 2015		479	452,419
Term Loan, 4.00%, Maturing May 5, 2015		1,691	1,617,747
Term Loan, 4.13%, Maturing May 5, 2015		760	727,366
Nalco Co.			
Term Loan, 4.50%, Maturing October 5, 2017		1,386	1,387,516
Norit NV			
Term Loan, 6.75%, Maturing July 7, 2017		1,250	1,218,750

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

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Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Chemicals and Plastics (continued)		
OM Group, Inc.		
Term Loan, 5.75%, Maturing August 2, 2017	525	\$ 526,312
Omnova Solutions, Inc.		
Term Loan, 5.75%, Maturing May 31, 2017	993	983,816
Rockwood Specialties Group, Inc.		
Term Loan, 3.50%, Maturing February 9, 2018	2,114	2,125,475
Schoeller Arca Systems Holding		
Term Loan, 6.04%, Maturing November 16, 2015	EUR 145	145,982
Term Loan, 6.04%, Maturing November 16, 2015	EUR 412	416,223
Term Loan, 6.04%, Maturing November 16, 2015	EUR 443	447,896
Solutia, Inc.		
Term Loan, 3.50%, Maturing August 1, 2017	2,077	2,083,623
Styron S.A.R.L.		
Term Loan, 6.00%, Maturing August 2, 2017	2,878	2,646,191
Univar, Inc.		
Term Loan, 5.00%, Maturing June 30, 2017	2,563	2,511,924
		\$ 32,420,227

Clothing / Textiles 0.2%

Phillips-Van Heusen Corp.		
Term Loan, 3.50%, Maturing May 6, 2016	547	\$ 547,905
Warnaco, Inc.		
Term Loan, 3.75%, Maturing June 15, 2018	499	496,256

\$ 1,044,161

Conglomerates 3.6%

Education Management, LLC

Term Loan, 2.13%, Maturing June 3, 2013 3,988 \$ 3,793,580

Financiere SPIE S.A.S.

Term Loan, 6.12%, Maturing June 29, 2018 EUR 2,000 2,615,193

Jason, Inc.

Term Loan, 8.25%, Maturing September 21, 2014 173 172,755

Term Loan, 8.25%, Maturing September 22, 2014 69 68,772

Term Loan, 8.50%, Maturing September 22, 2014 225 223,875

Rexnord Corp.

Term Loan, 2.50%, Maturing July 19, 2013 768 753,628

Term Loan, 2.87%, Maturing July 19, 2013 3,785 3,751,719

RGIS Holdings, LLC

Term Loan, 2.87%, Maturing April 30, 2014 122 115,510

Term Loan, 2.87%, Maturing April 30, 2014 2,438 2,310,204

Spectrum Brands, Inc.

Term Loan, 5.00%, Maturing June 17, 2016 2,279 2,275,752

Walter Energy, Inc.

Term Loan, 4.00%, Maturing April 2, 2018 2,239 2,238,415

\$ 18,319,403

Containers and Glass Products 2.4%

Berry Plastics Corp.

Term Loan, 2.24%, Maturing April 3, 2015 1,949 \$ 1,859,884

BWAY Corp.

Term Loan, 4.50%, Maturing February 23, 2018 70 69,933

Term Loan, 4.50%, Maturing February 23, 2018 794 787,682

Graphic Packaging International, Inc.

Term Loan, 2.39%, Maturing May 16, 2014 808 801,913

Term Loan, 3.14%, Maturing May 16, 2014 367 368,274

Hilex Poly Co.

Term Loan, 11.25%, Maturing November 16, 2015 925 906,500

Pelican Products, Inc.

Term Loan, 5.00%, Maturing March 7, 2017 769 761,496

Reynolds Group Holdings, Inc.

Term Loan, 6.50%, Maturing February 9, 2018 2,811 2,809,118

Term Loan, 6.50%, Maturing August 9, 2018 2,825 2,818,231

Sealed Air Corp.

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Term Loan, 4.75%, Maturing October 3, 2018	648	655,804
		\$ 11,838,835

Cosmetics / Toiletries 0.7%

Bausch & Lomb, Inc.

Term Loan, 3.50%, Maturing April 24, 2015	290	\$ 288,808
Term Loan, 3.59%, Maturing April 24, 2015	1,191	1,184,984

KIK Custom Products, Inc.

Term Loan - Second Lien, 5.26%, Maturing November 28, 2014	975	627,250
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Prestige Brands, Inc.

Term Loan, 4.77%, Maturing March 24, 2016	1,311	1,316,398
		\$ 3,417,440

Drugs 1.5%

Aptalis Pharma, Inc.

Term Loan, 5.50%, Maturing February 10, 2017	1,489	\$ 1,441,296
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Capsugel Healthcare, Ltd.

Term Loan, 5.25%, Maturing August 1, 2018	1,275	1,279,781
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Endo Pharmaceuticals Holdings, Inc.

Term Loan, 4.00%, Maturing June 18, 2018	1,227	1,231,462
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Graceway Pharmaceuticals, LLC

Term Loan, 0.00%, Maturing May 3, 2012 ⁽⁴⁾	550	325,440
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See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Drugs (continued)		
Term Loan, 12.00%, Maturing November 3, 2013 ⁽⁷⁾	323	\$ 2,219
Term Loan - Second Lien, 0.00%, Maturing May 3, 2013 ⁽⁴⁾	1,500	30,938
Warner Chilcott Corp.		
Term Loan, 4.25%, Maturing March 15, 2018	802	797,009
Term Loan, 4.25%, Maturing March 15, 2018	1,603	1,594,019
WC Luxco S.A.R.L.		
Term Loan, 4.25%, Maturing March 15, 2018	1,102	1,095,888
		\$ 7,798,052
Ecological Services and Equipment 0.2%		
Cory Environmental Holdings		
Term Loan - Second Lien, 5.04%, Maturing September 30, 2014 ⁽⁷⁾	GBP 513	\$ 232,136
Environmental Systems Products Holdings, Inc.		
Term Loan - Second Lien, 13.50%, Maturing September 12, 2014 ⁽⁵⁾	618	552,438
		\$ 784,574
Electronics / Electrical 8.6%		

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Aeroflex, Inc.		
Term Loan, 4.25%, Maturing May 9, 2018	1,173	\$ 1,155,713
Aspect Software, Inc.		
Term Loan, 6.25%, Maturing May 6, 2016	1,551	1,559,132
Attachmate Corp.		
Term Loan, 6.50%, Maturing April 27, 2017	950	929,813
Cinedigm Digital Funding I, LLC		
Term Loan, 5.25%, Maturing April 29, 2016	572	549,022
CommScope, Inc.		
Term Loan, 5.00%, Maturing January 14, 2018	2,114	2,106,446
Dealer Computer Services, Inc.		
Term Loan, 3.75%, Maturing April 20, 2018	2,394	2,390,409
DG FastChannel, Inc.		
Term Loan, 5.75%, Maturing July 26, 2018	1,621	1,604,728
Eagle Parent, Inc.		
Term Loan, 5.00%, Maturing May 16, 2018	2,594	2,543,251
Edwards (Cayman Island II), Ltd.		
Term Loan, 5.50%, Maturing May 31, 2016	500	469,584
Term Loan, 5.50%, Maturing May 31, 2016	1,241	1,165,154
FCI International S.A.S.		
Term Loan, 3.62%, Maturing November 1, 2013	123	120,808
Term Loan, 3.62%, Maturing November 1, 2013	123	120,808
Term Loan, 3.62%, Maturing November 1, 2013	128	125,486
Term Loan, 3.62%, Maturing November 1, 2013	128	125,486
Freescale Semiconductor, Inc.		
Term Loan, 4.49%, Maturing December 1, 2016	3,498	3,375,785
Infor Enterprise Solutions Holdings		
Term Loan, 5.75%, Maturing March 3, 2014	500	400,000
Term Loan, 6.00%, Maturing July 28, 2015	1,470	1,392,022
Term Loan, 6.00%, Maturing July 28, 2015	2,818	2,710,307
Term Loan - Second Lien, 6.50%, Maturing March 3, 2014	183	151,250
Term Loan - Second Lien, 6.50%, Maturing March 3, 2014	317	258,083
Microsemi Corp.		
Term Loan, 5.75%, Maturing February 2, 2018	1,575	1,586,813
NXP B.V.		
Term Loan, 4.50%, Maturing March 3, 2017	2,687	2,592,473
Open Solutions, Inc.		
Term Loan, 2.55%, Maturing January 23, 2014	2,006	1,731,064
SafeNet, Inc.		
Term Loan, 2.75%, Maturing April 12, 2014	1,936	1,859,777
Sensata Technologies Finance Co., LLC		
Term Loan, 4.00%, Maturing May 11, 2018	3,516	3,505,199
Serena Software, Inc.		
Term Loan, 4.34%, Maturing March 10, 2016	474	450,300
Shield Finance Co. S.A.R.L.		
Term Loan, 7.75%, Maturing June 15, 2016	842	831,660
SkillSoft Corp.		
Term Loan, 6.50%, Maturing May 19, 2017	250	250,000
Term Loan, 6.50%, Maturing May 26, 2017	978	978,386
Spanion, LLC		

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Term Loan, 4.75%, Maturing February 9, 2015 Sunquest Information Systems, Inc.	554	551,976
Term Loan, 6.25%, Maturing December 16, 2016 VeriFone, Inc.	748	740,644
Term Loan, 3.00%, Maturing October 31, 2013 Vertafore, Inc.	1,968	1,967,875
Term Loan, 5.25%, Maturing July 29, 2016 Web.com Group, Inc.	993	976,373
Term Loan, Maturing October 27, 2017 ⁽²⁾	2,150	1,930,969
		\$ 43,206,796

Equipment Leasing 0.6%

BakerCorp. International, Inc.		
Term Loan, 5.00%, Maturing June 1, 2018	848	\$ 836,747
Delos Aircraft, Inc.		
Term Loan, 7.00%, Maturing March 17, 2016	1,425	1,436,874

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Equipment Leasing (continued)		
International Lease Finance Corp.		
Term Loan, 6.75%, Maturing March 17, 2015	850	\$ 858,235
		\$ 3,131,856
Farming / Agriculture 0.3%		
WM. Bolthouse Farms, Inc.		
Term Loan, 5.50%, Maturing February 11, 2016	1,568	\$ 1,556,466
		\$ 1,556,466
Financial Intermediaries 5.9%		
AmWINS Group, Inc.		
Term Loan, 4.62%, Maturing June 8, 2013	948	\$ 924,416
Term Loan - Second Lien, 5.86%, Maturing June 8, 2014	500	475,000
CB Richard Ellis Services, Inc.		
Term Loan, 3.50%, Maturing March 5, 2018	693	676,968
Term Loan, 3.74%, Maturing September 4, 2019	654	639,358
Citco III, Ltd.		
Term Loan, 6.25%, Maturing June 29, 2018	1,646	1,600,613

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Fifth Third Processing Solutions, LLC

Term Loan, 4.50%, Maturing November 3, 2016 1,241 1,237,570

First Data Corp.

Term Loan, 2.99%, Maturing September 24, 2014 257 238,409

Term Loan, 2.99%, Maturing September 24, 2014 1,239 1,148,055

Term Loan, 2.99%, Maturing September 24, 2014 2,988 2,769,485

Term Loan, 4.24%, Maturing March 23, 2018 1,636 1,421,772

Grosvenor Capital Management Holdings, LLP

Term Loan, 4.25%, Maturing December 5, 2016 1,352 1,301,148

HarbourVest Partners, LLC

Term Loan, 6.25%, Maturing December 14, 2016 1,125 1,124,763

iPayment, Inc.

Term Loan, 5.75%, Maturing May 8, 2017 937 946,673

LPL Holdings, Inc.

Term Loan, 2.02%, Maturing June 28, 2013 915 907,913

Term Loan, 4.25%, Maturing June 25, 2015 2,881 2,864,457

Term Loan, 5.25%, Maturing June 28, 2017 2,080 2,077,504

Mercury Payment Systems Canada, LLC

Term Loan, 6.50%, Maturing July 3, 2017 648 649,185

Mondrian Investment Partners, Ltd.

Term Loan, 5.50%, Maturing July 12, 2018 1,270 1,269,545

Nuveen Investments, Inc.

Term Loan, 3.39%, Maturing November 13, 2014 1,651 1,599,296

Term Loan, 5.89%, Maturing May 12, 2017 2,429 2,341,527

RJO Holdings Corp.

Term Loan, 6.25%, Maturing December 10, 2015⁽⁵⁾ 7 5,773

Term Loan, 6.25%, Maturing December 10, 2015⁽⁵⁾ 224 169,505

RPI Finance Trust

Term Loan, 4.00%, Maturing May 9, 2018 3,491 3,474,886

\$ 29,863,821

Food Products 4.3%

American Seafoods Group, LLC

Term Loan, 4.25%, Maturing March 8, 2018 642 \$ 630,691

Del Monte Foods Co.

Term Loan, 4.50%, Maturing March 8, 2018 4,416 4,316,457

Dole Food Company, Inc.

Term Loan, 5.05%, Maturing July 6, 2018 969 972,455

JBS USA Holdings, Inc.

Term Loan, 4.25%, Maturing May 25, 2018 998 982,538

Michael Foods Group, Inc.

Term Loan, 4.25%, Maturing February 23, 2018 696 690,883

NBTY, Inc.

Term Loan, 4.25%, Maturing October 2, 2017 2,084 2,082,514

Pierre Foods, Inc.

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Term Loan, 7.00%, Maturing September 30, 2016		1,238	1,228,735
Pinnacle Foods Holdings Corp.			
Term Loan, 2.77%, Maturing April 2, 2014		6,554	6,483,016
Provimi Holding			
Term Loan, 2.12%, Maturing June 28, 2015		205	203,564
Term Loan, 2.12%, Maturing June 28, 2015		252	250,511
Term Loan, 3.24%, Maturing June 28, 2015	EUR	29	39,241
Term Loan, 3.24%, Maturing June 28, 2015	EUR	265	364,321
Term Loan, 3.24%, Maturing June 28, 2015	EUR	394	540,863
Term Loan, 3.24%, Maturing June 28, 2015	EUR	431	591,905
Term Loan - Second Lien, 4.96%, Maturing December 28, 2016		148	146,848
Term Loan - Second Lien, 5.62%, Maturing December 28, 2016	EUR	24	33,147
Term Loan - Second Lien, 5.62%, Maturing December 28, 2016	EUR	331	453,978
Solvest, Ltd.			
Term Loan, 5.03%, Maturing July 6, 2018		1,799	1,805,988
			\$ 21,817,655

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Food Service 5.7%		
Aramark Corp.		
Term Loan, 2.11%, Maturing January 27, 2014	169	\$ 166,970
Term Loan, 2.24%, Maturing January 27, 2014	2,094	2,069,957
Term Loan, 2.95%, Maturing January 27, 2014	953	1,454,949
Term Loan, 3.49%, Maturing July 26, 2016	304	301,524
Term Loan, 3.62%, Maturing July 26, 2016	4,621	4,584,867
Buffets, Inc.		
Term Loan, 14.00%, Maturing April 21, 2015 ⁽⁷⁾	1,235	586,806
Term Loan, 9.62%, Maturing April 22, 2015 ⁽⁷⁾	125	56,144
Burger King Corp.		
Term Loan, 4.50%, Maturing October 19, 2016	4,789	4,776,840
Denny s, Inc.		
Term Loan, 5.25%, Maturing September 30, 2016	630	632,362
DineEquity, Inc.		
Term Loan, 4.32%, Maturing October 19, 2017	1,583	1,584,728
Dunkin Brands, Inc.		
Term Loan, 4.00%, Maturing November 23, 2017	3,102	3,102,472
NPC International, Inc.		
Term Loan, 2.01%, Maturing May 3, 2013	268	266,958
OSI Restaurant Partners, LLC		
Term Loan, 2.80%, Maturing June 14, 2013	447	428,290
Term Loan, 2.56%, Maturing June 14, 2014	4,970	4,758,669
Sagittarius Restaurants, LLC		
Term Loan, 7.51%, Maturing May 18, 2015	450	447,750
Selecta		
Term Loan - Second Lien, 5.77%, Maturing December 28, 2015	741	685,484
U.S. Foodservice, Inc.		
Term Loan, 2.75%, Maturing July 3, 2014	1,987	1,849,431
Wendy s/Arby s Restaurants, LLC		
Term Loan, 5.00%, Maturing May 24, 2017	821	820,177

\$ 28,574,378

Food / Drug Retailers 5.1%

Alliance Boots Holdings, Ltd.

Term Loan, 3.63%, Maturing July 9, 2015 GBP 1,775 \$ 2,617,676

Term Loan, 4.15%, Maturing July 9, 2015 EUR 1,000 1,301,172

General Nutrition Centers, Inc.

Term Loan, 4.25%, Maturing March 2, 2018 4,725 4,719,094

Pantry, Inc. (The)

Term Loan, 2.00%, Maturing May 15, 2014 217 208,435

Term Loan, 2.00%, Maturing May 15, 2014 752 723,851

Rite Aid Corp.

Term Loan, 2.00%, Maturing June 4, 2014 7,966 7,653,939

Term Loan, 4.50%, Maturing March 2, 2018 2,114 2,008,222

Roundy's Supermarkets, Inc.

Term Loan, 7.00%, Maturing November 3, 2013 3,262 3,194,487

Supervalu, Inc.

Term Loan, 4.50%, Maturing April 28, 2018 3,234 3,108,442

\$ 25,535,318

Health Care 18.0%

1-800-Contacts, Inc.

Term Loan, 7.70%, Maturing March 4, 2015 902 \$ 897,367

Alere, Inc.

Term Loan, 4.50%, Maturing June 30, 2017 2,375 2,339,375

Alliance Healthcare Services

Term Loan, 7.25%, Maturing June 1, 2016 1,137 1,034,658

Ardent Medical Services, Inc.

Term Loan, 6.50%, Maturing September 15, 2015 1,133 1,110,803

Term Loan, 6.50%, Maturing September 18, 2015 675 660,656

Aveta Holdings, LLC

Term Loan, 8.50%, Maturing April 14, 2015 510 505,731

Term Loan, 8.50%, Maturing April 14, 2015 510 505,731

Biomet, Inc.

Term Loan, 3.32%, Maturing March 25, 2015 3,696 3,650,973

Carestream Health, Inc.

Term Loan, 5.00%, Maturing February 25, 2017 1,517 1,365,887

Carl Zeiss Vision Holding GmbHTerm Loan, 4.00%, Maturing September 30, 2019⁽⁷⁾ 135 113,556

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Catalent Pharma Solutions		
Term Loan, 2.50%, Maturing April 10, 2014	2,139	2,046,403
CDRL MS, Inc.		
Term Loan, 6.75%, Maturing September 29, 2016	878	872,230
Community Health Systems, Inc.		
Term Loan, 2.57%, Maturing July 25, 2014	351	341,832
Term Loan, 2.57%, Maturing July 25, 2014	6,838	6,651,159
Term Loan, 3.82%, Maturing January 25, 2017	3,432	3,335,598
ConMed Corp.		
Term Loan, 1.75%, Maturing April 12, 2013	439	430,601
ConvaTec, Inc.		
Term Loan, 5.75%, Maturing December 22, 2016	995	972,600
CRC Health Corp.		
Term Loan, 4.87%, Maturing November 16, 2015	1,940	1,842,715

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Health Care (continued)		
Dako EQT Project Delphi		
Term Loan - Second Lien, 4.12%, Maturing December 12, 2016	500	\$ 428,125
DaVita, Inc.		
Term Loan, 4.50%, Maturing October 20, 2016	2,978	2,976,571
DJO Finance, LLC		
Term Loan, 3.25%, Maturing May 20, 2014	635	614,010
Drumm Investors, LLC		
Term Loan, 5.00%, Maturing May 4, 2018	1,497	1,368,911
Emdeon Business Services, LLC		
Term Loan, 4.25%, Maturing November 18, 2013	2,452	2,463,769
Emergency Medical Services Corp.		
Term Loan, 5.25%, Maturing May 25, 2018	1,997	1,959,541
Fresenius US Finance I, Inc.		
Term Loan, 3.50%, Maturing September 10, 2014	308	308,009
Term Loan, 3.50%, Maturing September 10, 2014	686	685,838
Grifols, Inc.		
Term Loan, 6.00%, Maturing June 1, 2017	2,145	2,154,008
Hanger Orthopedic Group, Inc.		
Term Loan, 4.00%, Maturing December 1, 2016	670	654,026
HCA, Inc.		
Term Loan, 3.62%, Maturing March 31, 2017	6,168	6,000,791
Term Loan, 3.62%, Maturing May 1, 2018	2,572	2,487,739
Health Management Associates, Inc.		
Term Loan, 2.12%, Maturing February 28, 2014	6,981	6,858,844
Iasis Healthcare, LLC		
Term Loan, 5.00%, Maturing May 3, 2018	1,667	1,633,293
Immucor, Inc.		
Term Loan, 7.25%, Maturing August 17, 2018	700	705,250
inVentiv Health, Inc.		

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Term Loan, 6.50%, Maturing August 4, 2016	1,884	1,841,246
Term Loan, 6.75%, Maturing May 15, 2018	1,172	1,163,272
Kindred Healthcare, Inc.		
Term Loan, 5.25%, Maturing June 1, 2018	1,820	1,702,109
Kinetic Concepts, Inc.		
Term Loan, Maturing November 2, 2018 ⁽²⁾	4,025	4,041,036
Lifepoint Hospitals, Inc.		
Term Loan, 3.08%, Maturing April 15, 2015	2,022	1,997,000
MedAssets, Inc.		
Term Loan, 5.25%, Maturing November 16, 2016	845	840,473
Medpace, Inc.		
Term Loan, 6.50%, Maturing June 16, 2017	873	833,536
MultiPlan, Inc.		
Term Loan, 4.75%, Maturing August 26, 2017	3,520	3,415,896
Physiotherapy Associates, Inc.		
Term Loan, 7.50%, Maturing June 27, 2013	643	639,713
Prime Healthcare Services, Inc.		
Term Loan, 7.25%, Maturing April 22, 2015	2,290	2,181,344
RadNet Management, Inc.		
Term Loan, 5.75%, Maturing April 1, 2016	1,084	1,040,160
Renal Advantage Holdings, Inc.		
Term Loan, 5.75%, Maturing December 16, 2016	720	720,462
Select Medical Corp.		
Term Loan, 5.50%, Maturing May 25, 2018	3,017	2,806,217
Sunrise Medical Holdings, Inc.		
Term Loan, 7.25%, Maturing May 13, 2014	EUR 237	303,862
TriZetto Group, Inc. (The)		
Term Loan, 4.75%, Maturing May 2, 2018	1,471	1,450,162
Universal Health Services, Inc.		
Term Loan, 4.00%, Maturing November 15, 2016	2,103	2,093,205
Vanguard Health Holding Co., II, LLC		
Term Loan, 5.00%, Maturing January 29, 2016	1,576	1,566,956
VWR Funding, Inc.		
Term Loan, 2.75%, Maturing June 30, 2014	2,222	2,145,202
		\$ 90,758,451

Home Furnishings 0.8%

Hunter Fan Co.

Term Loan, 2.75%, Maturing April 16, 2014 326 \$ 299,763

National Bedding Co., LLC

Term Loan, 3.88%, Maturing November 28, 2013 1,437 1,424,163

Term Loan - Second Lien, 5.31%, Maturing February 28, 2014 2,050 1,988,500

Yankee Candle Company, Inc. (The)

Term Loan, 2.25%, Maturing February 6, 2014 520 510,354

\$ 4,222,780

Industrial Equipment 2.2%

Butterfly Wendel US, Inc.

Term Loan, 3.44%, Maturing June 23, 2014 277 \$ 259,110

Term Loan, 4.19%, Maturing June 22, 2015 277 259,027

Excelitas Technologies Corp.

Term Loan, 4.75%, Maturing November 23, 2016 990 990,000

Generac CCMP Acquisition Corp.

Term Loan, 2.78%, Maturing November 11, 2013 1,211 1,176,107

Husky Injection Molding Systems, Ltd.

Term Loan, 6.50%, Maturing June 30, 2018 1,498 1,498,125

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Industrial Equipment (continued)		
KION Group GmbH		
Term Loan, 3.75%, Maturing December 23, 2014 ⁽⁷⁾	1,028	\$ 856,354
Term Loan, 4.00%, Maturing December 23, 2015 ⁽⁷⁾	1,028	856,354
Manitowoc Company, Inc. (The)		
Term Loan, 4.25%, Maturing November 13, 2017	673	663,213
Polypore, Inc.		
Term Loan, 2.25%, Maturing July 3, 2014	3,784	3,722,657
Terex Corp.		
Term Loan, 5.50%, Maturing April 28, 2017	700	701,094
		\$ 10,982,041
Insurance 4.1%		
Alliant Holdings I, Inc.		
Term Loan, 3.37%, Maturing August 21, 2014	2,384	\$ 2,371,638
Applied Systems, Inc.		
Term Loan, 5.50%, Maturing December 8, 2016	1,390	1,361,710
Asurion Corp.		
Term Loan, 5.50%, Maturing May 24, 2018	5,583	5,527,575
Term Loan - Second Lien, 9.00%, Maturing May 24, 2019	1,100	1,084,875
C.G. JCF Corp.		
Term Loan, 3.25%, Maturing August 1, 2014	518	503,513
CCC Information Services Group, Inc.		
Term Loan, 5.50%, Maturing November 11, 2015	1,418	1,419,647
CNO Financial Group, Inc.		

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Term Loan, 6.25%, Maturing September 30, 2016	1,041	1,049,194
HUB International Holdings, Inc.		
Term Loan, 2.87%, Maturing June 13, 2014	487	476,702
Term Loan, 2.87%, Maturing June 13, 2014	2,166	2,121,173
Term Loan, 6.75%, Maturing June 13, 2014	564	564,909
Towergate Finance, PLC		
Term Loan, 6.50%, Maturing August 4, 2017	GBP 1,000	1,489,989
U.S.I. Holdings Corp.		
Term Loan, 2.75%, Maturing May 5, 2014	2,975	2,832,282
		\$ 20,803,207

Leisure Goods / Activities / Movies 8.0%

Alpha D2, Ltd.

Term Loan, 2.53%, Maturing December 31, 2013	864	\$ 828,371
Term Loan, 2.53%, Maturing December 31, 2013	1,582	1,515,981
Term Loan - Second Lien, 3.90%, Maturing June 30, 2014	2,000	1,865,714
AMC Entertainment, Inc.		
Term Loan, 3.49%, Maturing December 16, 2016	3,708	3,667,896
AMC Networks, Inc.		
Term Loan, 4.00%, Maturing December 31, 2018	1,347	1,335,404
Bombardier Recreational Products		
Term Loan, 2.90%, Maturing June 28, 2013	2,810	2,733,096
Bright Horizons Family Solutions, Inc.		
Term Loan, 4.25%, Maturing May 28, 2015	913	890,586
Carmike Cinemas, Inc.		
Term Loan, 5.50%, Maturing January 27, 2016	722	718,842
Cedar Fair, L.P.		
Term Loan, 4.00%, Maturing December 15, 2017	1,930	1,934,402
Cinemark USA, Inc.		
Term Loan, 3.52%, Maturing April 29, 2016	3,434	3,419,350
Clubcorp Operations, Inc.		
Term Loan, 6.00%, Maturing November 9, 2016	1,645	1,641,012
Dave & Buster s, Inc.		
Term Loan, 5.50%, Maturing May 12, 2016	985	976,381
Deluxe Entertainment Services Group, Inc.		
Term Loan, 6.25%, Maturing May 11, 2013	59	58,169
Term Loan, 6.25%, Maturing May 11, 2013	839	826,004
Fender Musical Instruments Corp.		
Term Loan, 2.50%, Maturing June 9, 2014	286	266,728
Term Loan, 2.50%, Maturing June 9, 2014	563	525,294
Live Nation Entertainment, Inc.		
Term Loan, 4.50%, Maturing November 7, 2016	2,266	2,262,668
Regal Cinemas Corp.		
Term Loan, 3.37%, Maturing August 23, 2017	4,367	4,319,509
Revolution Studios Distribution Co., LLC		

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Term Loan, 4.03%, Maturing December 21, 2014	927	681,511
Term Loan - Second Lien, 7.25%, Maturing June 21, 2015 ⁽⁵⁾	800	247,520
SeaWorld Parks & Entertainment, Inc.		
Term Loan, 4.00%, Maturing August 17, 2017	1,745	1,736,751
Six Flags Theme Parks, Inc.		
Term Loan, 5.25%, Maturing June 30, 2016	3,141	3,150,399
Town Sports International, Inc.		
Term Loan, 7.00%, Maturing May 4, 2018	1,010	1,002,053
Zuffa, LLC		
Term Loan, 2.25%, Maturing June 19, 2015	3,902	3,745,906
		\$ 40,349,547

Lodging and Casinos 3.3%

Ameristar Casinos, Inc.

Term Loan, 4.00%, Maturing April 13, 2018	1,045	1,045,186
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See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Lodging and Casinos (continued)		
Caesars Entertainment Operating Co.		
Term Loan, 3.36%, Maturing January 28, 2015	1,223	\$ 1,080,388
Term Loan, 3.42%, Maturing January 28, 2015	748	662,087
Term Loan, 3.42%, Maturing January 28, 2015	1,500	1,328,840
Term Loan, 9.50%, Maturing October 31, 2016	2,948	2,989,870
Gala Group, Ltd.		
Term Loan, 5.71%, Maturing May 30, 2018	GBP 1,625	2,219,823
Isle of Capri Casinos, Inc.		
Term Loan, 4.75%, Maturing November 1, 2013	920	923,826
Las Vegas Sands, LLC		
Term Loan, 2.84%, Maturing November 23, 2016	549	531,528
Term Loan, 2.84%, Maturing November 23, 2016	2,175	2,105,776
LodgeNet Entertainment Corp.		
Term Loan, 6.50%, Maturing April 4, 2014	1,444	1,263,613
Penn National Gaming, Inc.		
Term Loan, 3.75%, Maturing July 16, 2018	1,147	1,151,965
Tropicana Entertainment, Inc.		
Term Loan, 15.00%, Maturing March 8, 2013	182	199,850
VML US Finance, LLC		
Term Loan, 4.75%, Maturing May 27, 2013	967	963,113

\$ 16,465,865

Nonferrous Metals / Minerals 1.6%

Fairmount Minerals, Ltd.

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Term Loan, 5.25%, Maturing March 15, 2017	2,790	\$ 2,783,025
Noranda Aluminum Acquisition		
Term Loan, 2.00%, Maturing May 16, 2014	499	483,737
Novelis, Inc.		
Term Loan, 3.75%, Maturing March 10, 2017	2,035	2,027,312
Oxbow Carbon and Mineral Holdings		
Term Loan, 3.86%, Maturing May 8, 2016	2,658	2,567,872
		\$ 7,861,946

Oil and Gas 3.0%

Big West Oil, LLC		
Term Loan, 7.00%, Maturing March 31, 2016	369	\$ 373,470
Buffalo Gulf Coast Terminals, LLC		
Term Loan, Maturing October 31, 2017 ⁽²⁾	550	556,875
CITGO Petroleum Corp.		
Term Loan, 8.00%, Maturing June 24, 2015	210	210,754
Term Loan, 9.00%, Maturing June 23, 2017	2,543	2,596,212
Crestwood Holdings, LLC		
Term Loan, 10.50%, Maturing September 30, 2016	447	454,582
Frac Tech International, LLC		
Term Loan, 6.25%, Maturing May 6, 2016	2,095	2,086,814
Gibson Energy		
Term Loan, 5.75%, Maturing June 14, 2018	2,070	2,074,987
MEG Energy Corp.		
Term Loan, 4.00%, Maturing March 16, 2018	1,225	1,224,873
Obsidian Natural Gas Trust		
Term Loan, 7.00%, Maturing November 2, 2015	3,707	3,725,669
Sheridan Production Partners I, LLC		
Term Loan, 6.50%, Maturing April 20, 2017	106	106,707
Term Loan, 6.50%, Maturing April 20, 2017	174	174,699
Term Loan, 6.50%, Maturing April 20, 2017	1,316	1,318,399
		\$ 14,904,041

Publishing 6.3%

Ascend Learning		
Term Loan, 7.01%, Maturing December 6, 2016	1,092	\$ 1,063,548
Aster Zweite Beteiligungs GmbH		
Term Loan, 4.80%, Maturing December 31, 2014	1,699	1,514,250
Term Loan, 4.80%, Maturing December 30, 2016	1,509	1,344,949

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Term Loan, 4.80%, Maturing December 30, 2016 Cengage Learning Acquisitions, Inc.	1,775	1,581,525
Term Loan, 2.50%, Maturing July 3, 2014 GateHouse Media Operating, Inc.	992	856,125
Term Loan, 2.25%, Maturing August 28, 2014	862	212,553
Term Loan, 2.25%, Maturing August 28, 2014	2,054	506,735
Term Loan, 2.50%, Maturing August 28, 2014 Getty Images, Inc.	667	164,583
Term Loan, 5.25%, Maturing November 7, 2016 Instant Web, Inc.	3,432	3,446,714
Term Loan, 3.62%, Maturing August 7, 2014	166	157,950
Term Loan, 3.62%, Maturing August 7, 2014 Interactive Data Corp.	1,595	1,515,231
Term Loan, 4.50%, Maturing February 12, 2018 Lamar Media Corp.	2,256	2,242,891
Term Loan, 4.00%, Maturing December 30, 2016 Laureate Education, Inc.	631	632,053
Term Loan, 5.25%, Maturing August 15, 2018 MediaNews Group, Inc.	4,840	4,543,625
Term Loan, 8.50%, Maturing March 19, 2014 Merrill Communications, LLC	112	107,765
Term Loan, 7.50%, Maturing December 24, 2012 Nelson Education, Ltd.	1,225	1,182,423
Term Loan, 2.87%, Maturing July 3, 2014	462	372,076

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Publishing (continued)		
Nielsen Finance, LLC		
Term Loan, 2.24%, Maturing August 9, 2013	5,264	\$ 5,244,480
Term Loan, 3.99%, Maturing May 2, 2016	1,963	1,957,700
SGS International, Inc.		
Term Loan, 3.75%, Maturing September 30, 2013	457	452,454
Source Interlink Companies, Inc.		
Term Loan, 10.75%, Maturing June 18, 2013	895	861,776
Term Loan, 15.00%, Maturing March 18, 2014 ⁽⁷⁾	644	595,998
Springer Science+Business Media S.A.		
Term Loan, 4.25%, Maturing June 17, 2016	1,000	964,375
		\$ 31,521,779
Radio and Television 4.0%		
Block Communications, Inc.		
Term Loan, 2.25%, Maturing December 21, 2012	801	\$ 801,125
Clear Channel Communication		
Term Loan, 3.90%, Maturing January 28, 2016	1,500	1,188,984
Cumulus Media, Inc.		
Term Loan, 5.75%, Maturing September 17, 2018	4,675	4,628,250
Foxco Acquisition Sub, LLC		
Term Loan, 4.75%, Maturing July 14, 2015	549	535,260
Gray Television, Inc.		
Term Loan, 3.74%, Maturing December 31, 2014	633	621,058
HIT Entertainment, Inc.		

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Term Loan, 5.51%, Maturing June 1, 2012	739	733,039
Hubbard Radio, LLC		
Term Loan, 5.25%, Maturing April 28, 2017	998	990,019
Miramax Film NY, LLC		
Term Loan, 7.75%, Maturing May 20, 2016	838	838,462
Mission Broadcasting, Inc.		
Term Loan, 5.00%, Maturing September 30, 2016	520	517,319
Nexstar Broadcasting, Inc.		
Term Loan, 5.00%, Maturing September 30, 2016	813	809,154
Raycom TV Broadcasting, LLC		
Term Loan, 4.50%, Maturing May 31, 2017	873	829,172
Univision Communications, Inc.		
Term Loan, 2.25%, Maturing September 29, 2014	3,336	3,220,628
Term Loan, 4.50%, Maturing March 31, 2017	3,336	3,032,717
Weather Channel		
Term Loan, 4.25%, Maturing February 13, 2017	1,134	1,139,263
		\$ 19,884,450

Retailers (Except Food and Drug) 4.6%

Amscan Holdings, Inc.		
Term Loan, 6.75%, Maturing December 4, 2017	3,010	\$ 2,969,308
BJ s Wholesale Club, Inc.		
Term Loan, 7.00%, Maturing September 27, 2018	1,925	1,925,803
FTD, Inc.		
Term Loan, 4.75%, Maturing June 6, 2018	1,272	1,247,966
Harbor Freight Tools USA, Inc.		
Term Loan, 6.50%, Maturing December 22, 2017	1,773	1,765,899
J. Crew Operating Corp.		
Term Loan, 4.75%, Maturing March 7, 2018	1,592	1,497,674
Jo-Ann Stores, Inc.		
Term Loan, 4.75%, Maturing March 16, 2018	1,997	1,927,581
Michaels Stores, Inc.		
Term Loan, 2.66%, Maturing October 31, 2013	926	909,894
Neiman Marcus Group, Inc.		
Term Loan, 4.75%, Maturing May 16, 2018	3,050	2,968,031
PETCO Animal Supplies, Inc.		
Term Loan, 4.50%, Maturing November 24, 2017	1,238	1,229,766
Pilot Travel Centers, LLC		
Term Loan, 4.25%, Maturing March 30, 2018	1,777	1,780,513
Savers, Inc.		
Term Loan, 4.25%, Maturing March 3, 2017	1,194	1,188,776
Service Master Co.		
Term Loan, 2.75%, Maturing July 24, 2014	134	128,955
Term Loan, 2.76%, Maturing July 24, 2014	1,350	1,294,925
Visant Holding Corp.		

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Term Loan, 5.25%, Maturing December 22, 2016		1,390	1,321,762
Vivarte			
Term Loan, 3.23%, Maturing March 9, 2015	EUR	29	33,225
Term Loan, 3.23%, Maturing March 9, 2015	EUR	62	72,644
Term Loan, 3.23%, Maturing March 9, 2015	EUR	347	403,763
Term Loan, 3.85%, Maturing March 8, 2016	EUR	441	512,447
Term Loan, 3.85%, Maturing May 29, 2016	EUR	18	21,399
Term Loan, 3.85%, Maturing May 29, 2016	EUR	71	82,780
			\$ 23,283,111

Steel 0.5%

JMC Steel Group, Inc.

Term Loan, 4.75%, Maturing April 3, 2017 697 \$ 693,018

Niagara Corp.

Term Loan, 10.50%, Maturing June 29, 2014⁽⁵⁾⁽⁷⁾ 1,361 1,333,306

SunCoke Energy, Inc.

Term Loan, 4.01%, Maturing July 26, 2018 499 498,750

\$ 2,525,074

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Borrower/Tranche Description	Principal Amount* (000 s omitted)	Value
Surface Transport 1.1%		
Hertz Corp.		
Term Loan, 3.75%, Maturing March 9, 2018	3,507	\$ 3,486,082
Swift Transportation Co., Inc.		
Term Loan, 6.00%, Maturing December 21, 2016	2,096	2,103,030
		\$ 5,589,112
Telecommunications 4.7%		
Alaska Communications Systems Holdings, Inc.		
Term Loan, 5.50%, Maturing October 21, 2016	1,811	\$ 1,781,879
Cellular South, Inc.		
Term Loan, 4.50%, Maturing July 27, 2017	848	845,755
Intelsat Jackson Holdings SA		
Term Loan, 5.25%, Maturing April 2, 2018	10,298	10,269,291
Macquarie UK Broadcast, Ltd.		
Term Loan, 2.96%, Maturing December 1, 2014	GBP 755	1,032,592
MetroPCS Wireless		
Term Loan, 4.00%, Maturing March 16, 2018	3,980	3,926,918
NTelos, Inc.		
Term Loan, 4.00%, Maturing August 7, 2015	912	904,563
SBA Finance		
Term Loan, 3.75%, Maturing June 29, 2018	948	942,295
Syniverse Technologies, Inc.		
Term Loan, 5.25%, Maturing December 21, 2017	995	998,097
Telesat Canada, Inc.		
Term Loan, 3.25%, Maturing October 31, 2014	156	154,034

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Term Loan, 3.25%, Maturing October 31, 2014 TowerCo Finance, LLC	1,818	1,793,200
Term Loan, 5.25%, Maturing February 2, 2017 Windstream Corp.	672	671,625
Term Loan, 3.12%, Maturing December 17, 2015	323	321,276
		\$ 23,641,525

Utilities 3.5%

AES Corp.		
Term Loan, 4.25%, Maturing June 1, 2018	2,587	\$ 2,587,323
BRSP, LLC		
Term Loan, 7.50%, Maturing June 4, 2014	962	966,568
Calpine Corp.		
Term Loan, 4.50%, Maturing April 2, 2018	948	940,518
Term Loan, 4.50%, Maturing April 2, 2018	2,786	2,762,495
Dynegy Holdings, Inc.		
Term Loan, 9.25%, Maturing August 4, 2016	525	518,519
Term Loan, 9.25%, Maturing August 4, 2016	950	952,375
EquiPower Resources Holdings, LLC		
Term Loan, 5.75%, Maturing January 26, 2018	530	530,011
NRG Energy, Inc.		
Term Loan, 4.00%, Maturing July 2, 2018	4,414	4,423,132
TXU Texas Competitive Electric Holdings Co., LLC		
Term Loan, 4.76%, Maturing October 10, 2017	5,832	3,989,056
		\$ 17,669,997

Total Senior Floating-Rate Interests (identified cost \$744,100,499)		\$ 729,153,940
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Corporate Bonds & Notes 8.6%

Security	Principal Amount* (000 s omitted)	Value
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Automotive 0.0%

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

9.25%, 1/15/17 ⁽⁹⁾	104	\$	113,880
		\$	113,880

Broadcast Radio and Television 0.1%

XM Satellite Radio Holdings, Inc.

13.00%, 8/1/14 ⁽⁹⁾	485	\$	554,112
		\$	554,112

Building and Development 0.7%

AMO Escrow Corp., Sr. Notes

11.50%, 12/15/17 ⁽⁹⁾	1,802	\$	1,630,810
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Grohe Holding GmbH, Variable Rate

4.447%, 1/15/14 ⁽¹⁰⁾	EUR	1,575	2,081,258
		\$	3,712,068

Business Equipment and Services 0.3%

Brocade Communications Systems, Inc., Sr. Notes

6.625%, 1/15/18	30	\$	31,275
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6.875%, 1/15/20	30		31,575
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RSC Equipment Rental, Inc., Sr. Notes

10.00%, 7/15/17 ⁽⁹⁾	750		840,000
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SunGard Data Systems, Inc., Sr. Notes

10.625%, 5/15/15	500		541,250
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See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Security		Principal Amount* (000 s omitted)	Value
Business Equipment and Services (continued)			
Ticketmaster Entertainment, Inc.			
10.75%, 8/1/16		40	\$ 42,000
			\$ 1,486,100
Chemicals and Plastics 0.2%			
Styrolution Group GmbH, Sr. Notes			
7.625%, 5/15/16 ⁽⁹⁾	EUR	1,075	\$ 1,182,545
			\$ 1,182,545
Conglomerates 0.1%			
Education Management, LLC, Sr. Notes			
8.75%, 6/1/14		390	\$ 388,050
RBS Global & Rexnord Corp.			
11.75%, 8/1/16		155	164,300
			\$ 552,350

Containers and Glass Products 0.4%

Berry Plastics Corp., Sr. Notes, Variable Rate

5.153%, 2/15/15 2,000 \$ 1,985,000

\$ 1,985,000

Cosmetics / Toiletries 0.3%

Revlon Consumer Products Corp.

9.75%, 11/15/15 1,415 \$ 1,524,662

\$ 1,524,662

Ecological Services and Equipment 0.1%

Environmental Systems Product Holdings, Inc., Jr. Notes

18.00%, 3/31/15⁽⁵⁾ 373 \$ 314,905

\$ 314,905

Electronics / Electrical 0.1%

NXP BV/NXP Funding, LLC, Variable Rate

3.153%, 10/15/13 674 \$ 663,047

\$ 663,047

Equipment Leasing 0.3%

International Lease Finance Corp., Sr. Notes

5.65%, 6/1/14 1,000 \$ 965,000

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6.75%, 9/1/16 ⁽⁹⁾	350	361,812
7.125%, 9/1/18 ⁽⁹⁾	350	363,125

\$ 1,689,937

Financial Intermediaries 1.1%

First Data Corp., Sr. Notes

7.375%, 6/15/19 ⁽⁹⁾	1,000	\$ 995,000
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Ford Motor Credit Co., LLC, Sr. Notes

12.00%, 5/15/15	2,250	2,843,350
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8.00%, 12/15/16	175	202,755
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UPCB Finance II, Ltd., Sr. Notes

6.375%, 7/1/20 ⁽⁹⁾	EUR 1,000	1,300,678
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\$ 5,341,783

Food Service 0.1%

NPC International, Inc., Sr. Sub. Notes

9.50%, 5/1/14	245	\$ 250,513
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\$ 250,513

Forest Products 0.0~~0~~

Verso Paper Holdings, LLC/Verso Paper, Inc.

11.375%, 8/1/16	140	\$ 104,300
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\$ 104,300

Health Care 0.0~~0~~

Accellent, Inc., Sr. Notes

8.375%, 2/1/17	135	\$ 138,375
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\$ 138,375

Industrial Equipment 0.2%

Terex Corp., Sr. Notes

10.875%, 6/1/16

1,000

\$ 1,115,000

\$ 1,115,000

Insurance 0.0%

Alliant Holdings I, Inc.

11.00%, 5/1/15⁽⁹⁾

40

\$ 41,450

\$ 41,450

Leisure Goods / Activities / Movies 0.1%

AMC Entertainment, Inc., Sr. Notes

8.75%, 6/1/19

110

116,875

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Security	Principal Amount* (000 s omitted)	Value
Leisure Goods / Activities / Movies (continued)		
Royal Caribbean Cruises, Sr. Notes		
7.00%, 6/15/13	95	\$ 99,987
6.875%, 12/1/13	35	36,663
7.25%, 6/15/16	25	26,625
7.25%, 3/15/18	50	52,250
		\$ 332,400
Lodging and Casinos 0.8%		
Buffalo Thunder Development Authority		
9.375%, 12/15/49 ⁽⁴⁾⁽⁹⁾	480	\$ 170,400
CCM Merger, Inc.		
8.00%, 8/1/13 ⁽⁹⁾	50	47,750
Harrah s Operating Co., Inc., Sr. Notes		
11.25%, 6/1/17	1,500	1,612,500
Inn of the Mountain Gods Resort & Casino, Sr. Notes		
1.25%, 11/30/20 ⁽⁷⁾⁽⁹⁾	314	179,217
8.75%, 11/30/20 ⁽⁹⁾	137	134,260
Mohegan Tribal Gaming Authority, Sr. Sub. Notes		
8.00%, 4/1/12	140	94,850
7.125%, 8/15/14	215	115,025
6.875%, 2/15/15	230	116,725
Peninsula Gaming, LLC		
10.75%, 8/15/17	1,000	1,035,000
Tunica-Biloxi Gaming Authority, Sr. Notes		

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9.00%, 11/15/15 ⁽⁹⁾	310	310,000
Waterford Gaming, LLC, Sr. Notes		
8.625%, 9/15/14 ⁽⁵⁾⁽⁹⁾	210	120,814

\$ 3,936,541

Nonferrous Metals / Minerals 0.3%

CII Carbon, LLC		
11.125%, 11/15/15 ⁽⁹⁾	185	\$ 195,762
Cloud Peak Energy Resources, LLC/Cloud Peak Energy Finance Corp.		
8.25%, 12/15/17 ⁽⁹⁾	1,000	1,075,000
8.50%, 12/15/19	335	360,125

\$ 1,630,887

Oil and Gas 0.1%

Petroleum Development Corp., Sr. Notes		
12.00%, 2/15/18	115	\$ 125,350
Petroplus Finance, Ltd.		
7.00%, 5/1/17 ⁽⁹⁾	145	110,925
Quicksilver Resources, Inc., Sr. Notes		
11.75%, 1/1/16	125	141,875
SESI, LLC, Sr. Notes		
6.875%, 6/1/14	60	60,300

\$ 438,450

Publishing 0.2%

Laureate Education, Inc.		
10.00%, 8/15/15 ⁽⁹⁾	1,000	\$ 1,010,000

\$ 1,010,000

Radio and Television 0.2%

Entravision Communications Corp., Sr. Notes

8.75%, 8/1/17 ⁽⁹⁾	1,000	\$ 997,500
		\$ 997,500

Rail Industries 0.2%

American Railcar Industry, Sr. Notes

7.50%, 3/1/14	175	\$ 176,750
Kansas City Southern Mexico, Sr. Notes		
8.00%, 2/1/18	500	560,000
		\$ 736,750

Retailers (Except Food and Drug) 0.4%

Amscan Holdings, Inc., Sr. Sub. Notes

8.75%, 5/1/14	400	\$ 404,000
Sally Holdings, LLC, Sr. Notes		
9.25%, 11/15/14	665	685,781
10.50%, 11/15/16	20	21,175
Toys R Us		
10.75%, 7/15/17	1,000	1,115,000
		\$ 2,225,956

Steel 0.0~~8~~)

RathGibson, Inc., Sr. Notes

11.25%, 2/15/14 ⁽⁴⁾⁽⁵⁾	445	\$ 45
		\$ 45

Surface Transport 0.0~~0~~⁸)

CEVA Group PLC, Sr. Notes

11.50%, 4/1/18⁽⁹⁾

165 \$ 149,738

\$ 149,738

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Security	Principal Amount* (000 s omitted)	Value
Telecommunications 0.5%		
Avaya, Inc., Sr. Notes 9.75%, 11/1/15	840	\$ 747,600
EH Holding Corp., Sr. Notes 6.50%, 6/15/19 ⁽⁹⁾	1,000	1,027,500
Intelsat Bermuda, Ltd. 11.25%, 6/15/16	210	222,075
Telesat Canada/Telesat, LLC, Sr. Notes 11.00%, 11/1/15	405	442,462
		\$ 2,439,637
Utilities 1.8%		
Calpine Corp., Sr. Notes 7.50%, 2/15/21 ⁽⁹⁾	4,725	\$ 4,984,875
7.875%, 1/15/23 ⁽⁹⁾	3,350	3,551,000
Dynegy Holdings, LLC 7.625%, 10/15/26	390	235,950
Reliant Energy, Inc., Sr. Notes 7.625%, 6/15/14	20	20,500
		\$ 8,792,325
 Total Corporate Bonds & Notes		

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(identified cost \$43,380,012)

\$ 43,460,256

Asset-Backed Securities 1.3%

Security	Principal Amount (000 s omitted)	Value
Alzette European CLO SA, Series 2004-1A, Class E2, 6.874%, 12/15/20 ⁽¹¹⁾	\$ 400	\$ 317,527
Avalon Capital Ltd. 3, Series 1A, Class D, 2.258%, 2/24/19 ⁽⁹⁾⁽¹¹⁾	589	404,061
Babson Ltd., Series 2005-1A, Class C1, 2.353%, 4/15/19 ⁽⁹⁾⁽¹¹⁾	753	472,998
Carlyle High Yield Partners, Series 2004-6A, Class C, 2.728%, 8/11/16 ⁽⁹⁾⁽¹¹⁾	1,000	835,228
Centurion CDO 8 Ltd., Series 2005-8A, Class D, 5.836%, 3/8/17 ⁽¹¹⁾	985	696,908
Centurion CDO 9 Ltd., Series 2005-9A, Class D1, 5.153%, 7/17/19 ⁽¹¹⁾	750	491,281
Comstock Funding Ltd., Series 2006-1A, Class D, 4.569%, 5/30/20 ⁽⁹⁾⁽¹¹⁾	692	435,588
Dryden Leveraged Loan, Series 2004-6A, Class C1, 2.978%, 7/30/16 ⁽⁹⁾⁽¹¹⁾	1,500	1,500,000
First CLO Ltd., Series 2004-1A1, Class C, 2.722%, 7/27/16 ⁽⁹⁾⁽¹¹⁾	1,000	840,129
Schiller Park CLO Ltd., Series 2007-1A, Class D, 2.668%, 4/25/21 ⁽⁹⁾⁽¹¹⁾	1,000	631,911
Total Asset-Backed Securities (identified cost \$8,484,344)		\$ 6,625,631

Common Stocks 2.0%

Security	Shares	Value
Air Transport 0.0%		
Delta Air Lines, Inc. ⁽¹²⁾	3,971	\$ 33,833

		\$ 33,833
Automotive 0.6%		
Dayco Products, LLC ⁽¹²⁾⁽¹³⁾	18,702	\$ 764,444
Hayes Lemmerz International, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	44,747	2,349,218
		\$ 3,113,662
Building and Development 0.1%		
Panolam Holdings Co. ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾	253	\$ 216,072
United Subcontractors, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	508	29,710
		\$ 245,782
Diversified Manufacturing 0.0%		
MEGA Brands, Inc. ⁽¹²⁾	16,150	\$ 133,023
		\$ 133,023
Ecological Services and Equipment 0.1%		
Environmental Systems Products Holdings, Inc. ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾	6,211	\$ 262,787
		\$ 262,787
Financial Intermediaries 0.0%		
RTS Investor Corp. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	78	\$ 20,501

		\$ 20,501
Food Service 0.0%		
Buffets, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	23,029	\$ 0
		\$ 0
Leisure Goods / Activities / Movies 0.2%		
Metro-Goldwyn-Mayer Holdings, Inc. ⁽¹²⁾⁽¹³⁾	50,438	\$ 911,036
		\$ 911,036

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

Security	Shares		Value
Lodging and Casinos 0.1%			
Greektown Superholdings, Inc. ⁽¹²⁾	71	\$	4,793
Tropicana Entertainment, Inc. ⁽¹²⁾⁽¹³⁾	35,670		490,462
		\$	495,255
Nonferrous Metals / Minerals 0.0%			
Euramax International, Inc. ⁽¹²⁾⁽¹³⁾	701	\$	198,966
		\$	198,966
Oil and Gas 0.0%			
SemGroup Corp. ⁽¹²⁾	1,397	\$	39,088
		\$	39,088
Publishing 0.7%			
Ion Media Networks, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	3,990	\$	3,192,000
MediaNews Group, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	10,718		212,108
Source Interlink Companies, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	2,290		14,244

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SuperMedia, Inc. ⁽¹²⁾	9,554	16,528
		\$ 3,434,880

Steel 0.2%

KNIA Holdings, Inc. ⁽⁵⁾⁽¹²⁾⁽¹³⁾	23,138	\$ 512,044
RathGibson Acquisition Co., LLC ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾	19,800	611,820
		\$ 1,123,864

Total Common Stocks (identified cost \$4,502,446)		\$ 10,012,677
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Preferred Stocks 0.0%

Security	Shares	Value
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Ecological Services and Equipment 0.0%

Environmental Systems Products Holdings, Inc., Series A ⁽⁵⁾⁽¹²⁾⁽¹⁴⁾	1,422	\$ 87,538
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Total Preferred Stocks (identified cost \$24,885)		\$ 87,538
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Warrants 0.0%

Security	Shares	Value
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Oil and Gas 0.0%

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SemGroup Corp., Expires 11/30/14 ⁽¹²⁾	1,470	\$	10,952
		\$	10,952

Publishing 0.0%

Reader s Digest Association, Inc. (The), Expires 2/19/14 ⁽⁵⁾⁽¹²⁾⁽¹³⁾	1,450	\$	0
		\$	0

Retailers (Except Food and Drug) 0.0%

Oriental Trading Co., Inc., Expires 2/11/16 ⁽⁵⁾⁽¹²⁾⁽¹³⁾	6,134	\$	0
Oriental Trading Co., Inc., Expires 2/11/16 ⁽⁵⁾⁽¹²⁾⁽¹³⁾	6,730		0
		\$	0

Total Warrants (identified cost \$15)		\$	10,952
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Short-Term Investments 2.2%

Description	Interest/ Principal Amount (000 s omitted)		Value
Eaton Vance Cash Reserves Fund, LLC, 0.12% ⁽¹⁵⁾	\$ 8,817	\$	8,817,147
State Street Bank and Trust Euro Time Deposit, 0.01%, 11/1/11	2,383		2,383,102

Total Short-Term Investments

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(identified cost \$11,200,249)	\$ 11,200,249
Total Investments 159.0% (identified cost \$811,692,450)	\$ 800,551,243
Less Unfunded Loan Commitments (0.1)%	\$ (362,561)
Net Investments 158.9% (identified cost \$811,329,889)	\$ 800,188,682
Other Assets, Less Liabilities (32.8)%	\$ (165,497,076)
Auction Preferred Shares Plus Cumulative Unpaid Dividends (26.1)%	\$ (131,309,060)
Net Assets Applicable to Common Shares 100.0%	\$ 503,382,546

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

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Portfolio of Investments continued

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) This Senior Loan will settle after October 31, 2011, at which time the interest rate will be determined.
- (3) Unfunded or partially unfunded loan commitments. See Note 1G for description.
- (4) Currently the issuer is in default with respect to interest payments. For a variable rate 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) Defaulted matured security. For a variable rate security, interest rate has been adjusted to reflect non-accrual status.
- (7) Represents a payment-in-kind security which may pay all or a portion of interest/dividends in additional par/shares.
- (8) Amount is less than 0.05%.
- (9) 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, 2011, the aggregate value of these securities is \$26,568,068 or 5.3% of the Trust's net assets applicable to common shares.
- (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, 2011.

- (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, 2011.

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Statement of Assets and Liabilities

Assets	October 31, 2011
Unaffiliated investments, at value (identified cost, \$802,512,742)	\$ 791,371,535
Affiliated investment, at value (identified cost, \$8,817,147)	8,817,147
Restricted cash*	780,000
Foreign currency, at value (identified cost, \$4,822,919)	4,871,744
Interest and dividends receivable	3,923,680
Interest receivable from affiliated investment	847
Receivable for investments sold	7,970,364
Receivable for open forward foreign currency exchange contracts	879,001
Prepaid expenses	26,878
Other assets	10,281
Total assets	\$ 818,651,477
Liabilities	
Notes payable	\$ 165,000,000
Payable for investments purchased	17,480,750
Payable for open forward foreign currency exchange contracts	603,302
Payable to affiliates:	
Investment adviser fee	466,975
Trustees fees	2,169
Accrued expenses	406,675
Total liabilities	\$ 183,959,871
Auction preferred shares (5,252 shares outstanding) at liquidation value plus cumulative unpaid dividends	\$ 131,309,060

Net assets applicable to common shares **\$ 503,382,546**

Sources of Net Assets

Common shares, \$0.01 par value, unlimited number of shares authorized, 33,767,691 shares issued and outstanding	\$ 337,677
Additional paid-in capital	637,482,422
Accumulated net realized loss	(124,308,145)
Accumulated undistributed net investment income	633,849
Net unrealized depreciation	(10,763,257)

Net assets applicable to common shares **\$ 503,382,546**

Net Asset Value Per Common Share

(\$503,382,546 , 33,767,691 common shares issued and outstanding) **\$ 14.91**

* Represents restricted cash on deposit at the custodian as collateral for open financial contracts.

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Statement of Operations

	Year Ended October 31, 2011
Investment Income	
Interest and other income	\$ 43,082,995
Interest allocated from affiliated investment	27,038
Expenses allocated from affiliated investment	(2,133)
Total investment income	\$ 43,107,900
Expenses	
Investment adviser fee	\$ 5,991,921
Trustees' fees and expenses	26,040
Custodian fee	385,914
Transfer and dividend disbursing agent fees	18,744
Legal and accounting services	155,233
Printing and postage	122,420
Interest expense and fees	2,255,344
Preferred shares service fee	199,914
Miscellaneous	150,096
Total expenses	\$ 9,305,626
Deduct	
Reduction of investment adviser fee	\$ 428,699
Reduction of custodian fee	65
Total expense reductions	\$ 428,764

Net expenses	\$ 8,876,862
Net investment income	\$ 34,231,038
Realized and Unrealized Gain (Loss)	
Net realized gain (loss)	
Investment transactions	\$ (599,760)
Investment transactions allocated from affiliated investment	684
Foreign currency and forward foreign currency exchange contract transactions	(1,600,975)
Net realized loss	\$ (2,200,051)
Change in unrealized appreciation (depreciation)	
Investments	\$ 521,081
Foreign currency and forward foreign currency exchange contracts	947,082
Net change in unrealized appreciation (depreciation)	\$ 1,468,163
Net realized and unrealized loss	\$ (731,888)
Distributions to preferred shareholders	
From net investment income	\$ (291,157)
Net increase in net assets from operations	\$ 33,207,993

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Statements of Changes in Net Assets

Increase (Decrease) in Net Assets	Year Ended October 31,	
	2011	2010
From operations		
Net investment income	\$ 34,231,038	\$ 34,509,000
Net realized loss from investment, foreign currency and forward foreign currency exchange contract transactions	(2,200,051)	(15,778,618)
Net change in unrealized appreciation (depreciation) from investments, foreign currency and forward foreign currency exchange contracts	1,468,163	62,203,911
Distributions to preferred shareholders		
From net investment income	(291,157)	(384,607)
Net increase in net assets from operations	\$ 33,207,993	\$ 80,549,686
Distributions to common shareholders		
From net investment income	\$ (35,840,010)	\$ (37,305,680)
Total distributions to common shareholders	\$ (35,840,010)	\$ (37,305,680)
Capital share transactions		
Reinvestment of distributions to common shareholders	\$ 817,192	\$ 1,253,537
Net increase in net assets from capital share transactions	\$ 817,192	\$ 1,253,537
Net increase (decrease) in net assets	\$ (1,814,825)	\$ 44,497,543

Net Assets Applicable to Common Shares

At beginning of year	\$ 505,197,371	\$ 460,699,828
At end of year	\$ 503,382,546	\$ 505,197,371

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

At end of year	\$ 633,849	\$ 3,963,096
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See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Statement of Cash Flows

	Year Ended October 31, 2011
Cash Flows From Operating Activities	
Net increase in net assets from operations	\$ 33,207,993
Distributions to preferred shareholders	291,157
Net increase in net assets from operations excluding distributions to preferred shareholders	\$ 33,499,150
Adjustments to reconcile net increase in net assets from operations to net cash provided by operating activities:	
Investments purchased	(387,910,995)
Investments sold and principal repayments	382,317,564
Decrease in short-term investments, net	4,610,341
Net amortization/accretion of premium (discount)	(5,225,261)
Increase in restricted cash	(780,000)
Amortization of structuring fee on notes payable	91,849
Decrease in interest and dividends receivable	96,057
Decrease in interest receivable from affiliated investment	2,013
Increase in receivable for investments sold	(1,795,401)
Increase in receivable for open forward foreign currency exchange contracts	(865,503)
Decrease in receivable from the transfer agent	95,902
Increase in prepaid expenses	(21,274)
Increase in other assets	(1,678)
Increase in payable for investments purchased	883,324
Increase in payable for open forward foreign currency exchange contracts	73,974
Increase in payable to affiliate for investment adviser fee	35,900
Decrease in payable to affiliate for Trustees fees	(146)
Decrease in accrued expenses	(9,730)
Decrease in unfunded loan commitments	(1,221,389)
Net change in unrealized (appreciation) depreciation from investments	(521,081)
Net realized loss from investments	599,760
Net cash provided by operating activities	\$ 23,953,376

Cash Flows From Financing Activities

Distributions paid to common shareholders, net of reinvestments	\$ (35,022,818)
Cash distributions to preferred shareholders	(298,248)
Increase in notes payable	15,000,000

Net cash used in financing activities **\$ (20,321,066)**

Net increase in cash* **\$ 3,632,310**

Cash at beginning of year⁽¹⁾ **\$ 1,239,434**

Cash at end of year⁽¹⁾ **\$ 4,871,744**

Supplemental disclosure of cash flow information:

Reinvestment of dividends and distributions	\$ 817,192
Cash paid for interest and fees on borrowings	\$ 2,241,279

⁽¹⁾ Balance includes foreign currency, at value.

* Includes net change in unrealized appreciation (depreciation) on foreign currency of \$46,998.

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Financial Highlights

Selected data for a common share outstanding during the periods stated

	Year Ended October 31,				
	2011	2010	2009	2008	2007
Net asset value Beginning of year (Common shares)	\$ 14.980	\$ 13.700	\$ 10.190	\$ 17.800	\$ 18.690
Income (Loss) From Operations					
Net investment income ⁽¹⁾	\$ 1.014	\$ 1.025	\$ 0.978	\$ 1.665	\$ 2.177
Net realized and unrealized gain (loss)	(0.013)	1.374	3.423	(7.647)	(0.861)
Distributions to preferred shareholders					
From net investment income ⁽¹⁾	(0.009)	(0.011)	(0.028)	(0.367)	(0.634)
Total income (loss) from operations	\$ 0.992	\$ 2.388	\$ 4.373	\$ (6.349)	\$ 0.682
Less Distributions to Common Shareholders					
From net investment income	\$ (1.062)	\$ (1.108)	\$ (0.863)	\$ (1.142)	\$ (1.542)
Tax return of capital				(0.119)	(0.030)
Total distributions to common shareholders	\$ (1.062)	\$ (1.108)	\$ (0.863)	\$ (1.261)	\$ (1.572)

Net asset value End of year (Common shares)	\$ 14.910	\$ 14.980	\$ 13.700	\$ 10.190	\$ 17.800
Market value End of year (Common shares)	\$ 14.550	\$ 15.640	\$ 12.980	\$ 9.480	\$ 16.200
Total Investment Return on Net Asset Value⁽²⁾	6.69%	17.93%	46.90%	(37.33)%	3.93%
Total Investment Return on Market Value⁽²⁾	(0.28)%	29.96%	49.61%	(35.90)%	(3.13)%

See Notes to Financial Statements.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Financial Highlights continued

Selected data for a common share outstanding during the periods stated

Year Ended October 31,

Ratios/Supplemental Data	2011	2010	2009	2008	2007
Net assets applicable to common shares, end of year (000 s omitted)	\$ 503,383	\$ 505,197	\$ 460,700	\$ 342,457	\$ 598,214
Ratios (as a percentage of average daily net assets applicable to common shares): ⁽³⁾					
Expenses excluding interest and fees ⁽⁴⁾	1.29%	1.22%	1.21%	1.18%	1.18%
Interest and fee expense ⁽⁵⁾	0.44%	0.49%	1.15%	0.99%	
Total expenses	1.73%	1.71%	2.36%	2.17%	1.18%
Net investment income	6.69%	7.11%	9.21%	10.66%	11.79%
Portfolio Turnover	49%	36%	42%	21%	58%

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⁾	0.83%	0.77%	0.74%	0.68%	0.72%
Interest and fee expense ⁽⁵⁾	0.28%	0.31%	0.70%	0.57%	
Total expenses	1.11%	1.08%	1.44%	1.25%	0.72%
Net investment income	4.28%	4.50%	5.63%	6.12%	7.21%

Senior Securities:

Total notes payable outstanding (in 000 s)	\$ 165,000	\$ 150,000	\$ 150,000	\$ 154,200	\$
Asset coverage per \$1,000 of notes payable ⁽⁶⁾	\$ 4,847	\$ 5,243	\$ 4,947	\$ 4,074	\$
Total preferred shares outstanding	5,252	5,252	5,252	5,252	15,760

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Asset coverage per preferred share	\$ 67,473 ⁽⁷⁾	\$ 69,900 ⁽⁷⁾	\$ 65,945 ⁽⁷⁾	\$ 55,060 ⁽⁷⁾	\$ 63,001 ⁽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 payable and preferred shares) from the Trust's total assets, dividing the result by the sum of the value of the notes payable and liquidation value of preferred shares, and multiplying the result by the liquidation value of one preferred share. Such amount equates to 270%, 280%, 264% and 220% at October 31, 2011, 2010, 2009 and 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

October 31, 2011

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 (i.e., subordinated loans and second lien 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 obligations 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. 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 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 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.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Notes to Financial Statements continued

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, 2011, the Trust, for federal income tax purposes, had a capital loss carryforward of \$123,862,786 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), October 31, 2018 (\$11,668,372) and October 31, 2019 (\$811,704).

As of October 31, 2011, 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, 2011 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. These commitments are

disclosed in the accompanying Portfolio of Investments. At October 31, 2011, 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 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 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.

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

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Notes to Financial Statements continued

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, 2011 is as follows:

	APS Issued and Outstanding
Series A	1,313
Series B	1,313
Series C	1,313
Series 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

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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, 2011, 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, 2011	Dividends Accrued to APS Shareholders	Average APS Dividend Rates	Dividend Rate Ranges (%)
Series A	0.21%	\$ 72,793	0.22%	0.09 0.33
Series B	0.21	72,793	0.22	0.09 0.33
Series C	0.09	71,676	0.22	0.09 0.30
Series D	0.21	73,895	0.23	0.12 0.32

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, 2011.

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.

Eaton Vance
Senior Floating-Rate Trust

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Notes to Financial Statements continued

The tax character of distributions declared for the years ended October 31, 2011 and October 31, 2010 was as follows:

	Year Ended October 31,	
	2011	2010
Distributions declared from:		
Ordinary income	\$ 36,131,167	\$ 37,690,287

During the year ended October 31, 2011, accumulated undistributed net investment income was decreased by \$1,429,118, accumulated net realized loss was decreased by \$1,425,616 and paid-in capital was increased by \$3,502 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, 2011, the components of distributable earnings (accumulated losses) and unrealized appreciation (depreciation) on a tax basis were as follows:

Undistributed ordinary income	\$ 725,553
Capital loss carryforward	\$ (123,862,786)
Net unrealized depreciation	\$ (11,300,320)

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, investments in partnerships 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. The Trust 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, 2011, the Trust's investment adviser fee totaled to \$5,991,921. 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 seven full years of operations on November 28, 2010. Pursuant to this agreement, EVM waived \$428,699 of its investment adviser fee for the year ended October 31, 2011.

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, 2011, 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, paydowns and principal repayments on Senior Loans, aggregated \$387,910,995 and \$382,317,564, respectively, for the year ended October 31, 2011.

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, 2011 and October 31, 2010 were 51,827 and 85,909, respectively.

Eaton Vance
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October 31, 2011

Notes to Financial Statements continued

7 Federal Income Tax Basis of Investments

The cost and unrealized appreciation (depreciation) of investments of the Trust at October 31, 2011, as determined on a federal income tax basis, were as follows:

Aggregate cost	\$ 811,866,952
Gross unrealized appreciation	\$ 14,879,674
Gross unrealized depreciation	(26,557,944)
Net unrealized depreciation	\$ (11,678,270)

8 Restricted Securities

At October 31, 2011, 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.

Description	Date of Acquisition	Shares	Cost	Value
Common Stocks				
Environmental Systems Products Holdings, Inc.	10/25/07	6,211	\$ 0 ⁽¹⁾	\$ 262,787
Panolam Holdings Co.	12/30/09	253	139,024	216,072

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RathGibson Acquisition Co., LLC	6/14/10	19,800	105,079	611,820
Total Common Stocks			\$ 244,103	\$ 1,090,679
Preferred Stocks				
Environmental Systems Products Holdings, Inc., Series A	10/25/07	1,422	\$ 24,885	\$ 87,538
Total Restricted Securities			\$ 268,988	\$ 1,178,217

(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.

Eaton Vance
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October 31, 2011

Notes to Financial Statements continued

A summary of obligations under these financial instruments at October 31, 2011 is as follows:

**Forward Foreign Currency Exchange Contracts
Sales**

Settlement Date	Deliver	In Exchange For	Counterparty	Net Unrealized Appreciation (Depreciation)
11/30/11	British Pound Sterling 2,803,559	United States Dollar 4,576,739	JPMorgan Chase Bank	\$ 70,152
11/30/11	Euro 10,081,327	United States Dollar 14,583,950	Citibank NA	638,370
12/30/11	British Pound Sterling 7,148,136	United States Dollar 11,132,114	Goldman Sachs, Inc.	(354,257)
12/30/11	Euro 8,328,903	United States Dollar 11,284,498	HSBC Bank USA	(235,031)
1/31/12	Euro 4,387,143	United States Dollar 6,229,393	Deutsche Bank	162,327
				\$ 281,561

Purchases

Settlement Date	In Exchange For	Deliver	Counterparty	Net Unrealized Appreciation (Depreciation)
------------------------	------------------------	----------------	---------------------	---

11/30/11	British Pound Sterling 233,374	United States Dollar 366,986	Deutsche Bank	\$ 8,152
12/30/11	British Pound Sterling 2,784,046	United States Dollar 4,487,710	JPMorgan Chase Bank	(14,014)
				\$ (5,862)

At October 31, 2011, 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 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 Trust enters into forward foreign currency exchange contracts that may contain provisions whereby the counterparty may terminate the contract under certain conditions, including but not limited to a decline in the Trust's net assets below a certain level over a certain period of time, which would trigger a payment by the Trust for those derivatives in a liability position. At October 31, 2011 the fair value of derivatives with credit-related contingent features in a net liability position was \$603,302. The aggregate fair value of assets pledged as collateral by the Trust for such liability was \$780,000 at October 31, 2011.

The non-exchange traded derivatives in which the Trust invests, including forward foreign currency exchange contracts, are subject to the risk that the counterparty to the contract fails to perform its obligations under the contract. At October 31, 2011, the maximum amount of loss the Trust would incur due to counterparty risk was \$879,001, representing the fair value of such derivatives in an asset position, with the highest amount from any one counterparty being \$638,370. To mitigate this risk, the Trust has entered into master netting agreements with substantially all its derivative counterparties, which allows it and a counterparty to aggregate amounts owed by each of them for derivative transactions under the agreement into a single net amount payable by either the Trust or the counterparty. At October 31, 2011, the maximum amount of loss the Trust would incur due to counterparty risk would be reduced by approximately \$14,000 due to master netting agreements. Counterparties may be required to pledge collateral in

Eaton Vance
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October 31, 2011

Notes to Financial Statements continued

the form of cash, U.S. Government securities or highly-rated bonds for the benefit of the Trust if the net amount due from the counterparty with respect to a derivative contract exceeds a certain threshold. The amount of collateral posted by the counterparties with respect to such contracts would also reduce the amount of any loss incurred.

The fair value of open 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, 2011 was as follows:

Derivative	Fair Value	
	Asset Derivative⁽¹⁾	Liability Derivative⁽²⁾
Forward foreign currency exchange contracts	\$ 879,001	\$ (603,302)

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

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

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, 2011 was as follows:

Derivative	Realized Gain (Loss) on Derivatives Recognized	Change in Unrealized Appreciation (Depreciation) on Derivatives Recognized in Income⁽²⁾
	in Income⁽¹⁾	
Forward foreign currency exchange contracts	\$ (1,444,245)	\$ 791,529

- (1) Statement of Operations location: Net realized gain (loss) Foreign currency and forward foreign currency exchange contract transactions.
- (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, 2011, which is indicative of the volume of this derivative type, was approximately \$56,323,000.

10 Credit Agreement

The Trust has entered into a Credit Agreement (the Agreement) with a bank to borrow up to a limit of \$185 million (\$150 million prior to March 29, 2011) 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. Included in interest expense is approximately \$92,000 of amortization of previously paid up-front fees related to the period from November 1, 2010 through March 29, 2011. In connection with the renewal of the Agreement on March 30, 2011, the Trust was not required to pay up-front fees. The Trust is required to maintain certain net asset levels during the term of the Agreement. At October 31, 2011, the Trust had borrowings outstanding under the Agreement of \$165,000,000 at an interest rate of 1.19%. The carrying amount of the borrowings at October 31, 2011 approximated its fair value. For the year ended October 31, 2011, the average borrowings under the Agreement and the average interest rate were \$156,013,699 and 1.22%, 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

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Notes to Financial Statements continued

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)

In cases where the inputs used to measure fair value fall in different levels of the fair value hierarchy, the level disclosed is determined based on the lowest level input that is significant to the fair value measurement in its entirety. The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

At October 31, 2011, the hierarchy of inputs used in valuing the Trust's investments and open derivative instruments, which are carried at value, were as follows:

Asset Description	Level 1	Level 2	Level 3	Total
Senior Floating-Rate Interests (Less Unfunded Loan Commitments)	\$	\$ 726,437,111	\$ 2,354,268	\$ 728,791,379
Corporate Bonds & Notes		43,024,492	435,763	43,460,256
Asset-Backed Securities		6,625,631		6,625,631
Common Stocks	222,472	2,369,702	7,420,504	10,012,677
Preferred Stocks			87,538	87,538

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Notes to Financial Statements continued

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, 2010	\$ 1,958,716	\$ 528,020	\$ 1,650,143	\$ 328,797	\$ 0	\$ 4,465,676
Realized gains (losses)	(811,655)	(320,637)	(45,539)	117,398		(1,060,433)
Change in net unrealized appreciation (depreciation)*	578,605	771,768	4,078,904	(216,357)		5,212,920
Cost of purchases ⁽¹⁾	212,208	23,565	1,828			237,601
Proceeds from sales ⁽¹⁾	(195,810)	(601,013)	(221,452)	(142,300)		(1,160,575)
Accrued discount (premium)	8,042	29,521				37,563
Transfers to Level 3**	604,162	4,539	1,956,620			2,565,321
Transfers from Level 3**						
Balance as of October 31, 2011	\$ 2,354,268	\$ 435,763	\$ 7,420,504	\$ 87,538	\$ 0	\$ 10,298,073

**Change in net
unrealized
appreciation
(depreciation) on
investments still
held as of**

October 31, 2011* \$ (106,186) \$ (9,731) \$ 3,946,948 \$ (76,803) \$ 0 \$ 3,754,228

* 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. Transfers from Level 2 to Level 3 were due to a reduction in the availability of significant observable inputs in determining the fair value of these investments.

(1) Cost of purchases may include securities received in corporate actions; proceeds from sales may include securities delivered in corporate actions.

At October 31, 2011, the value of investments transferred between Level 1 and Level 2, if any, during the year then ended was not significant.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

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, 2011, 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, 2011, 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, such 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, 2011, 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, 2011

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Federal Tax Information (Unaudited)

The Form 1099-DIV you receive in January 2012 will show the tax status of all distributions paid to your account in calendar year 2011. 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

October 31, 2011

Annual Meeting of Shareholders of Eaton Vance Senior Floating-Rate Trust (Unaudited)

The Trust held its Annual Meeting of Shareholders on August 26, 2011. The following action was taken by the shareholders:

Item 1: The election of Thomas E. Faust Jr., William H. Park and Ralph F. Verni as Class II Trustees of the Trust for a three-year term expiring in 2014. Mr. Verni was elected solely by APS shareholders.

Nominee for Trustee Elected by APS Shareholders	Number of Shares	
	For	Withheld
Ralph F. Verni (APS)	3,635	115

Nominee for Trustee Elected by All Shareholders	Number of Shares	
	For	Withheld
Thomas E. Faust Jr.	30,970,030	844,898
William H. Park	30,990,322	824,606

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Notice to Shareholders

Effective May 20, 2011, the Trust's investment policies were changed to expand the Authorized Foreign Currencies in which the Trust may invest to include Australian dollars. The Trust may invest up to 15% of net assets in senior loans denominated in Authorized Foreign Currencies, which include euros, British pounds, Swiss francs, Canadian dollars and Australian dollars. The Trust currently seeks to hedge against currency fluctuations related to Authorized Foreign Currency senior loan holdings through the use of currency exchange contracts.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Dividend Reinvestment Plan

The Trust offers a dividend reinvestment plan (Plan) pursuant to which shareholders may elect to have distributions automatically reinvested in common shares (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 NAV 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 NAV per Share or 95% of the market price. Otherwise, Shares generally will be purchased on the open market by AST, the Plan agent (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 the Trust's transfer agent re-register your Shares in your name or you will not be able to participate.

The Agent's service fee for handling distributions will be paid by the Trust. Plan participants 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 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 Agent to sell part or all of his or her Shares and remit the proceeds, the 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 Agent. Any inquiries regarding the Plan can be directed to the Agent at 1-866-439-6787.

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

October 31, 2011

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. Each Trustee oversees 179 portfolios in the Eaton Vance Complex (including all master and feeder funds in a master feeder structure). Each officer serves as an officer of certain other Eaton Vance funds. Each Trustee serves for a three year term. Each officer serves until his or her successor is elected.

Name and Year of Birth	Position(s) with the Trust	Term of Office; Length of Service	Principal Occupation(s) and Directorships During Past Five Years and Other Relevant Experience
Interested Trustee			
Thomas E. Faust Jr. 1958	Class II Trustee	Until 2014. 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 179 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. Directorships in the Last Five Years. ⁽¹⁾ Director of EVC.
Noninterested Trustees			
Scott E. Eston 1956	Class I Trustee	Until 2013. 2 years. Trustee since 2011.	Private investor. Formerly held various positions at Grantham, Mayo, Van Otterloo and Co., L.L.C. (investment

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management firm) (1997-2009), including Chief Operating Officer (2002-2009), Chief Financial Officer (1997-2009) and Chairman of the Executive Committee (2002-2008); President and Principal Executive Officer, GMO Trust (open-end registered investment company) (2006-2009). Former Partner, Coopers and Lybrand L.L.P. (now PricewaterhouseCoopers) (public accounting firm) (1987-1997).

Directorships in the Last Five Years. None.

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. Directorships in the Last Five Years. ⁽¹⁾ None.
Allen R. Freedman 1940	Class I Trustee	Until 2013. 3 years. Trustee since 2007.	Private Investor. 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). Former Chairman and a Director of Indus International, Inc. (provider of enterprise management software to the power generating industry) (2005-2007). Former Chief Executive Officer of Assurant, Inc. (insurance provider) (1979-2000). Directorships in the Last Five Years. ⁽¹⁾ Director of Stonemor Partners, L.P. (owner and operator of cemeteries). Formerly, Director of Assurant, Inc. (insurance provider) (1979-2011).
William H. Park 1947	Class II Trustee	Until 2014. 3 years. Trustee since 2003.	Consultant and private investor. Formerly, Chief Financial Officer, Aveon Group L.P. (investment management firm) (2010-2011). 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 (investment management firm) (1982-2001). Formerly, Senior Manager, Price Waterhouse (now PricewaterhouseCoopers) (an independent registered public accounting firm) (1972-1981). Directorships in the Last Five Years. ⁽¹⁾ None.
Ronald A. Pearlman 1940	Class III Trustee	Until 2012. 3 years. Trustee since 2003.	Professor of Law, Georgetown University Law Center. 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). Directorships in the Last Five Years. ⁽¹⁾ None.

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

Management and Organization continued

Name and Year of Birth	Position(s) with the Trust	Term of Office; Length of Service	Principal Occupation(s) and Directorships During Past Five Years and Other Relevant Experience
Noninterested Trustees (continued)			
Helen Frame Peters 1948	Class III Trustee	Until 2012. 3 years. Trustee since 2008.	<p>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).</p> <p>Directorships in the Last Five Years.⁽¹⁾ Formerly, Director of BJ's Wholesale Club, Inc. (wholesale club retailer) (2004-2011). 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).</p>
Lynn A. Stout 1957	Class I Trustee	Until 2013. 3 years. Trustee since 2003.	<p>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. Directorships in the Last Five Years.⁽¹⁾ None.</p>
Harriett Tee Taggart 1948	Class III Trustee	Until 2012. 1 year. Trustee since 2011.	<p>Managing Director, Taggart Associates (a professional practice firm). Formerly, Partner and Senior Vice President, Wellington Management Company, LLP (investment management firm) (1983-2006).</p> <p>Directorships in the Last Five Years. Director of Albemarle Corporation (chemicals manufacturer) (since 2007) and The Hanover Group (specialty property and casualty insurance company) (since 2009). Formerly, Director of Lubrizol Corporation (specialty chemicals) (2007-2011).</p>

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Ralph F. Verni ^(A) 1943	Chairman of the Board and Class II Trustee	Until 2014. 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 Farm Credit Corp. (2002-2006). Directorships in the Last Five Years. ⁽¹⁾ None.
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Principal Officers who are not Trustees

Name and Year of Birth	Position(s) with the Trust	Length of Service	Principal Occupation(s) During Past Five Years
Scott H. Page 1959	President	Since 2008	Vice President of EVM and BMR.
Payson F. Swaffield 1956	Vice President	Since 2011	Chief Income Investment Officer of EVC. Vice President of EVM and BMR.
Barbara E. Campbell 1957	Treasurer	Since 2003	Vice President of EVM and BMR.
Maureen A. Gemma 1960	Vice President, Secretary and Chief Legal Officer	Vice President since 2011, Secretary since 2007 and Chief Legal Officer since 2008	Vice President of EVM and BMR.
Paul M. O Neil 1953	Chief Compliance Officer	Since 2004	Vice President of EVM and BMR.

⁽¹⁾ During their respective tenures, the Trustees (except Mr. Eston and Ms. Taggart) 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 Trust (launched in 1998 and terminated in 2009).

^(A) APS Trustee

Eaton Vance
Senior Floating-Rate Trust

October 31, 2011

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, Eaton Vance Distributors, Inc., Eaton Vance Trust Company, Eaton Vance Management's Real Estate Investment Group and Boston Management and Research. In addition, 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 advisor/broker-dealer, it is likely that only such advisor'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 (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 advisor, may household the mailing of your documents indefinitely unless you instruct Eaton Vance, or your financial advisor, 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 advisor. 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 advisor.

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 and by accessing 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 also may 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.

Closed-End Fund Information. The Eaton Vance closed-end funds make certain quarterly fund performance data and information about portfolio characteristics (such as top holdings and asset allocation) available on the Eaton Vance website after the end of each calendar quarter-end. Certain month end fund performance data for the funds, including total returns, are posted to the website shortly after the end of each calendar month. Portfolio holdings for the most recent calendar quarter-end are also posted to the website approximately 30 days following the end of the quarter. This information is available at www.eatonvance.com on the fund information pages under Individual Investors' Closed-End Funds.

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Investment Adviser and Administrator

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

Fund Offices

Two International Place

Boston, MA 02110

2025-12/11

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 a consultant and private investor. Previously, he served as the Chief Financial Officer of Aveon Group, L.P. (an investment management firm), 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 the aggregate fees billed to the registrant for the registrant's fiscal years ended October 31, 2010 and October 31, 2011 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	10/31/10	10/31/11
Audit Fees	\$ 76,490	\$ 77,250
Audit-Related Fees ⁽¹⁾	\$ 5,330	\$ 5,330
Tax Fees ⁽²⁾	\$ 14,540	\$ 14,690
All Other Fees ⁽³⁾	\$ 1,400	\$ 1,200
Total	\$ 97,760	\$ 98,470

- (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, 2010 and October 31, 2011; 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	10/31/10	10/31/11
Registrant	\$ 21,270	\$ 21,220
Eaton Vance⁽¹⁾	\$ 278,901	\$ 226,431

(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), Scott E. Eston, Helen Frame Peters, 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 table shows, 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	\$ 18,042.5	0	\$ 0
Other Pooled Investment Vehicles	6	\$ 6,359.5	1	\$ 489.5
Other Accounts	2	\$ 1,307.1	0	\$ 0
Craig P. Russ				
Registered Investment Companies	8	\$ 15,743.2	0	\$ 0
Other Pooled Investment Vehicles	1	\$ 3,659.2	0	\$ 0
Other Accounts	2	\$ 1,307.1	0	\$ 0
Peter M. Campo				
Registered Investment Companies	1	\$ 799.7	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	
	\$100,001	\$500,000
Scott H. Page		
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 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 the benchmark(s) stated in the prospectus, as well as an appropriate peer group (as described below). 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 19, 2011

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 19, 2011

By: /s/ Scott H. Page

Scott H. Page
President

Date: December 19, 2011