

EATON VANCE SENIOR FLOATING RATE TRUST  
Form N-CSRS  
June 25, 2010

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

**Form N-CSR**

**CERTIFIED SHAREHOLDER REPORT OF REGISTERED**  
**MANAGEMENT INVESTMENT COMPANIES**

**Investment Company Act File Number: 811-21411**

**Eaton Vance Senior Floating-Rate Trust**

(Exact Name of Registrant as Specified in Charter)

Two International Place, Boston, Massachusetts 02110

(Address of Principal Executive Offices)

Maureen A. Gemma

Two International Place, Boston, Massachusetts 02110

(Name and Address of Agent for Services)

(617) 482-8260

(Registrant's Telephone Number)

October 31

Date of Fiscal Year End

April 30, 2010

Date of Reporting Period

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**Item 1. Reports to Stockholders**

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Semi annual Report April 30,2010 EATON VANCE SENIOR FLOATING-RATE TRUST

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**IMPORTANT NOTICES REGARDING PRIVACY,  
DELIVERY OF SHAREHOLDER DOCUMENTS,  
PORTFOLIO HOLDINGS AND PROXY VOTING**

**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](http://www.eatonvance.com).

Our pledge of privacy applies to the following entities within the Eaton Vance organization: the Eaton Vance Family of Funds, Eaton Vance Management, Eaton Vance Investment Counsel, Boston Management and Research, and Eaton Vance Distributors, Inc.

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 adviser/broker-dealer, it is likely that only such adviser's privacy policies apply to the customer. This notice supersedes all previously issued privacy disclosures.

For more information about Eaton Vance's Privacy Policy, please call 1-800-262-1122.

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

**Eaton Vance, or your financial adviser, may household the mailing of your documents indefinitely unless you instruct Eaton Vance, or your financial adviser, otherwise.**

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If you would prefer that your Eaton Vance documents not be householded, please contact Eaton Vance at 1-800-262-1122, or contact your financial adviser.

Your instructions that householding not apply to delivery of your Eaton Vance documents will be effective within 30 days of receipt by Eaton Vance or your financial adviser.

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

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

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Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

INVESTMENT UPDATE

Economic and Market Conditions

Scott H. Page, CFA

Co-Portfolio Manager

Peter M. Campo, CFA

Co-Portfolio Manager

During the six months ending April 30, 2010, the U.S. economy continued to strengthen, building on the recovery that began in 2009. The economy grew at an annualized rate of 5.7% in the fourth quarter of 2009 and an estimated 3.2% in the first quarter of 2010, according to the U.S. Department of Commerce. Growth was driven by government stimulus, increased business activity and a recovery in consumer spending. During the period, the Federal Reserve (the Fed) left short-term interest rates near zero but began unwinding various emergency programs that were designed to stabilize the financial system during the crisis. Meanwhile, corporate profits rebounded as business activity improved and productivity rose. We also saw the mounting effects of the government's ongoing stimulus plan, which significantly increased the federal deficit and U.S. Treasury borrowing. Long-term interest rates were essentially unchanged during the period, while riskier assets continued to perform well as credit yield spreads tightened.

The floating-rate loan market, as measured by the S&P/LSTA Leveraged Loan Index (the Index), returned 9.57% during the six-month period ending April 30, 2010.<sup>1</sup> Performance was driven by a combination of technical and fundamental improvements, which strengthened both the supply/demand balance and the market outlook. From a technical standpoint, robust high-yield bond issuance and improving mergers and acquisitions and IPO markets had the effect of reducing loan supply. High-yield bond issuance alone was responsible for \$13 billion of loan repayments in the first quarter of 2010, according to Standard & Poor's Leveraged Commentary & Data. On the demand side, we saw steady inflows into the asset class, as investors sought more-favorable yields and protection from the anticipated rise in short-term interest rates. From a fundamental standpoint, earnings across the bank loan universe generally improved and default rates continued to decline.

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

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

Management Discussion

Craig P. Russ

Co-Portfolio Manager

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.

**Total Return Performance 10/31/09 4/30/10**

<b>NYSE Symbol</b>	<b>EFR</b>
At Net Asset Value (NAV) <sup>2</sup>	14.18%
At Market Price <sup>2</sup>	34.40
S&P/LSTA Leveraged Loan Index <sup>1</sup>	9.57
Premium/(Discount) to NAV (4/30/10)	11.52%
Total Distributions per common share	\$0.594
Distribution Rate <sup>3</sup>	<i>At NAV</i> 6.79% <i>At Market Price</i> 6.09%

*See page 3 for more performance information.*

<sup>1</sup> It is not possible to invest directly in an Index. The Index's total return reflects changes in value of the loans constituting the Index and accrual of interest and does not reflect the commissions or expenses that would have been incurred if an investor individually purchased or sold the loans represented in the Index. Unlike the Trust, the Index's return does not reflect the effect of leverage.

<sup>2</sup> Six-month returns are cumulative. Performance results reflect the effects of leverage.

<sup>3</sup> The Distribution Rate is based on the Trust's last regular distribution per share (annualized) divided by the Trust's NAV or market price at the end of the period.

The Trust's distributions may be comprised of ordinary income, net realized capital gains and return of capital. Absent an expense waiver by the investment adviser, the returns would be lower.



Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

INVESTMENT UPDATE

As of April 30, 2010, the Trust's investments included senior loans to 370 borrowers spanning 38 industries, with an average loan representing 0.24% of total investments, and no industry constituting more than 10.3% of total investments. Health care, business equipment and services, and cable and satellite television were among the top industry weightings.

Management's use of leverage was a factor in the Trust's outperformance of the Index, as its loans acquired with borrowings were bolstered by the continued rally in the credit markets. However, the Trust's slight underweight to the CCC ratings category in favor of higher quality issues was a headwind during the period, as lower-quality issues outperformed. The CCC rated loan category, which saw the largest declines in 2008 (down 45.8%), returned 88.6% in calendar 2009, and 20.4% during the six months ending April 30, 2010. Even defaulted loans outperformed the Index as a whole, posting a 21.6% return during the six-month period. However, we believe that the Trust's longstanding underweight to riskier loan issuers has benefited its relative performance over the longer-term with less volatility.

In terms of industry sectors, relative overweights to the business equipment and services, cable and satellite television and health care industries benefited relative performance. Underweight positions in the electronics, financial intermediaries and utilities industries detracted from performance relative to the Index.

While significant economic and business risks continue to exist throughout the world, we believe the loan market should remain relatively stable in the near term. The Trust primarily invests in floating-rate securities, which means that if the Fed should increase rates out of concern about inflation, the Trust's yield can be expected to rise. The reset of interest payable on floating-rate bank loans also helps to mitigate the effect of rising interest rates on bank loan funds, while fixed-income fund values generally fall in a rising interest rate environment.

As of April 30, 2010, the Trust employed leverage of 35.8% of total assets 16.7% auction preferred shares (APS) and 19.1% borrowings. Use of leverage creates an opportunity for income, but at the same time creates special risks (including the likelihood of greater volatility of net asset value and market price of common shares).

<sup>1</sup> APS percentage represents the liquidation value of the Trust's APS outstanding at 4/30/10 as a percentage of the Trust's net assets applicable to common shares plus APS and borrowings outstanding. In the event of a rise in long-term interest rates, the value of the Trust's

investment  
portfolio could  
decline, which  
would reduce  
the asset  
coverage for its  
APS and  
borrowings.

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

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010  
**FUND PERFORMANCE**

**Trust Performance<sup>1</sup>**

NYSE Symbol	EFR
Average Annual Total Returns (by market price, NYSE)	
Six Months	34.40%
One Year	87.79
Five Years	6.00
Life of Trust (11/28/03)	5.99
Average Annual Total Returns (at net asset value)	
Six Months	14.18%
One Year	59.76
Five Years	4.10
Life of Trust (11/28/03)	4.20

<sup>1</sup> *Six-month returns are cumulative. Other returns are presented on an average annual basis. Performance results reflect the effects of leverage. Absent an expense waiver by the investment adviser, the returns would be lower.*

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

**Portfolio Composition****Top 10 Holdings<sup>2</sup>**

By total investments

Community Health Systems, Inc.	1.3%
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Rite Aid Corp.	1.2
Charter Communications Operating, Inc.	1.2
Georgia-Pacific Corp.	1.2
Aramark Corp.	1.1
SunGard Data Systems, Inc.	1.1
HCA, Inc.	1.1
Intelsat Corp.	0.9
Health Management Associates, Inc.	0.9
Calpine Corp.	0.8

<sup>2</sup> Top 10 Holdings represented 10.8% of the Trust's total investments as of 4/30/10.

**Top Five Industries<sup>3</sup>**

By total investments

Health Care	10.6%
Business Equipment and Services	7.9
Cable and Satellite Television	7.6
Leisure Goods/Activities/Movies	5.3
Chemicals and Plastics	4.3

<sup>3</sup> Industries are shown as a percentage of the Trust's total investments as of 4/30/10.

**Credit Quality Ratings for Total Loan Investments<sup>4</sup>**

By total loan investments

Baa	1.8%
Ba	41.8
B	37.0
Ca	0.5
Caa	5.5
Defaulted	1.7
Non-Rated <sup>5</sup>	11.7

<sup>4</sup> Credit Quality ratings are those provided by Moody's Investor Services, Inc., a

nationally recognized bond rating service. Reflects the Trust's total loan investments as of 4/30/10. Credit ratings are based largely on the rating agency's investment analysis at the time of rating and the rating assigned to any particular security is not necessarily a reflection of the issuer's current financial condition. The rating assigned to a security by a rating agency does not necessarily reflect its assessment of the volatility of a security's market value or of the liquidity of an investment in the security. If securities are rated differently by the rating agencies, the higher rating is applied.

<sup>5</sup> Certain loans in which the Trust invests are not rated by a rating agency. In management's opinion, such securities are

comparable to  
securities rated  
by a rating  
agency in the  
categories listed  
above.

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

PORTFOLIO OF INVESTMENTS (Unaudited)

**Senior Floating-Rate Interests 138.7%****Principal****Amount\*****(000 s omitted)****Borrower/Tranche Description****Value**

Aerospace and Defense 2.9%

**ACTS Aero Technical Support & Service, Inc.**

47	Term Loan, 11.25%, Maturing March 12, 2013	\$ 47,456
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118	Term Loan - Second Lien, 10.75%, Maturing March 12, 2015 <sup>(2)</sup>	118,894
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**Booz Allen Hamilton, Inc.**

499	Term Loan, 6.00%, Maturing July 31, 2015	500,870
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**DAE Aviation Holdings, Inc.**

405	Term Loan, 4.09%, Maturing July 31, 2014	388,485
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416	Term Loan, 4.09%, Maturing July 31, 2014	399,136
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**Delos Aircraft, Inc.**

625	Term Loan, 7.00%, Maturing March 15, 2016	633,906
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**Evergreen International Aviation**

1,299	Term Loan, 10.50%, Maturing October 31, 2011 <sup>(2)</sup>	1,221,359
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**Hawker Beechcraft Acquisition**

4,309	Term Loan, 2.28%, Maturing March 26, 2014	3,710,453
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256	Term Loan, 2.29%, Maturing March 26, 2014	220,685
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**Hexcel Corp.**

632	Term Loan, 6.50%, Maturing May 21, 2014	636,749
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**IAP Worldwide Services, Inc.**

828	Term Loan, 9.25%, Maturing December 30, 2012 <sup>(2)</sup>	790,524
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**International Lease Finance Co.**

850	Term Loan, 6.75%, Maturing March 15, 2015	867,637
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**Spirit AeroSystems, Inc.**

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1,573	Term Loan, 2.05%, Maturing December 31, 2011	1,558,030
<b>TransDigm, Inc.</b>		
1,625	Term Loan, 2.28%, Maturing June 23, 2013	1,604,010
<b>Vought Aircraft Industries, Inc.</b>		
899	Term Loan, 7.50%, Maturing December 17, 2011	902,274
213	Term Loan, 7.50%, Maturing December 22, 2011	213,218
<b>Wesco Aircraft Hardware Corp.</b>		
1,093	Term Loan, 2.53%, Maturing September 29, 2013	1,075,912
		<b>\$ 14,889,598</b>

Air Transport 0.6%

**Airport Development and Investment, Ltd.**

GBP	783	Term Loan - Second Lien, 4.85%, Maturing April 7, 2011	\$ 1,166,059
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**Delta Air Lines, Inc.**

	742	Term Loan, 2.30%, Maturing April 30, 2012	727,036
	1,167	Term Loan - Second Lien, 3.55%, Maturing April 30, 2014	1,094,938

**\$ 2,988,033**

Automotive 5.5%

**Accuride Corp.**

	1,958	Term Loan, 9.75%, Maturing June 30, 2013	\$ 1,968,573
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**Adesa, Inc.**

	2,071	Term Loan, 3.03%, Maturing October 18, 2013	2,035,683
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**Allison Transmission, Inc.**

	1,883	Term Loan, 3.01%, Maturing September 30, 2014	1,804,497
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**Dayco Products, LLC**

	414	Term Loan, 10.50%, Maturing November 13, 2014	414,299
	61		56,402



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	Term Loan, 12.50%, Maturing November 13, 2014 <sup>(2)</sup>	
<b>Federal-Mogul Corp.</b>		
2,470	Term Loan, 2.19%, Maturing December 27, 2014	2,264,058
3,104	Term Loan, 2.20%, Maturing December 27, 2015	2,845,124
<b>Ford Motor Co.</b>		
4,192	Term Loan, 3.28%, Maturing December 15, 2013	4,055,203
<b>Goodyear Tire &amp; Rubber Co.</b>		
5,400	Term Loan - Second Lien, 2.24%, Maturing April 30, 2014	5,173,200
<b>HHI Holdings, LLC</b>		
1,000	Term Loan, 10.50%, Maturing March 30, 2015	1,016,563
<b>Keystone Automotive Operations, Inc.</b>		
1,317	Term Loan, 3.78%, Maturing January 12, 2012	1,152,062
<b>LKQ Corp.</b>		
885	Term Loan, 2.50%, Maturing October 12, 2014	878,933
<b>TriMas Corp.</b>		
426	Term Loan, 6.00%, Maturing August 2, 2011	419,768
2,762	Term Loan, 6.00%, Maturing December 15, 2015	2,720,329
<b>United Components, Inc.</b>		
1,031	Term Loan, 2.25%, Maturing June 30, 2010	1,008,256
		<b>\$ 27,812,950</b>

Beverage and Tobacco 0.2%

**Southern Wine & Spirits of America, Inc.**

992	Term Loan, 5.50%, Maturing May 31, 2012	\$ 990,927
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**\$ 990,927**

Building and Development 2.6%

**Beacon Sales Acquisition, Inc.**

1,110	Term Loan, 2.28%, Maturing September 30, 2013	\$ 1,093,532
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**Brickman Group Holdings, Inc.**

1,180	Term Loan, 2.29%, Maturing January 23, 2014	1,156,027
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**Epco/Fantome, LLC**

1,281	Term Loan, 2.89%, Maturing November 23, 2010	1,229,760
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See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b> (000 s omitted)	<b>Borrower/Tranche Description</b>	<b>Value</b>
Building and Development (continued)		
<b>Forestar USA Real Estate Group, Inc.</b>		
244	Revolving Loan, 0.53%, Maturing December 1, 2010 <sup>(3)</sup>	\$ 233,389
2,240	Term Loan, 5.11%, Maturing December 1, 2010	2,206,517
<b>Metroflag BP, LLC</b>		
500	Term Loan - Second Lien, 0.00%, Maturing October 31, 2009 <sup>(4)(5)</sup>	0
<b>Mueller Water Products, Inc.</b>		
944	Term Loan, 5.33%, Maturing May 24, 2014	948,098
<b>NCI Building Systems, Inc.</b>		
282	Term Loan, 8.00%, Maturing June 18, 2010	278,694
<b>November 2005 Land Investors</b>		
305	Term Loan, 5.75%, Maturing May 9, 2011	83,069
<b>Panolam Industries Holdings, Inc.</b>		
1,858	Term Loan, 8.25%, Maturing December 31, 2013	1,737,660
<b>Re/Max International, Inc.</b>		
1,900	Term Loan, 5.50%, Maturing April 16, 2016	1,904,750
<b>Realogy Corp.</b>		
672	Term Loan, 3.29%, Maturing October 10, 2013	610,565
318	Term Loan, 3.38%, Maturing October 10, 2013	289,073
<b>South Edge, LLC</b>		
1,588	Term Loan, 0.00%, Maturing October 31, 2009 <sup>(4)</sup>	722,313
<b>WCI Communities, Inc.</b>		
623	Term Loan, 10.07%, Maturing September 3, 2014	622,134

**\$ 13,115,581**

Business Equipment and Services 12.0%

**Activant Solutions, Inc.**

1,098 Term Loan, 2.31%, Maturing May 1, 2013 \$ 1,052,329

**Advantage Sales & Marketing**

1,200 Term Loan, Maturing May 5, 2016<sup>(6)</sup> 1,193,999

1,000 Term Loan - Second Lien, Maturing May 5, 2017<sup>(6)</sup> 990,000

1,629 Term Loan, 2.26%, Maturing March 29, 2013 1,628,601

**Affinion Group, Inc.**

3,725 Term Loan, 5.00%, Maturing October 8, 2016 3,706,375

**Allied Barton Security Service**

983 Term Loan, 6.75%, Maturing February 21, 2015 991,883

**Dealer Computer Services, Inc.**

1,850 Term Loan, Maturing April 16, 2017<sup>(6)</sup> 1,850,000

**Education Management, LLC**

4,605 Term Loan, 2.06%, Maturing June 1, 2013 4,514,881

**First American Corp.**

925 Term Loan, 4.75%, Maturing April 9, 2016 931,649

**Info USA, Inc.**

249 Term Loan, 2.05%, Maturing February 14, 2012 248,375

**Intergraph Corp.**

1,000 Term Loan, 4.50%, Maturing May 29, 2014 997,806

575 Term Loan, 6.00%, Maturing May 29, 2014 578,115

1,000 Term Loan - Second Lien, 6.25%, Maturing November 29, 2014 1,005,000

**iPayment, Inc.**

2,382 Term Loan, 2.28%, Maturing May 10, 2013 2,285,911

**Kronos, Inc.**

1,018 Term Loan, 2.29%, Maturing June 11, 2014 982,369

**Language Line, Inc.**

2,020 Term Loan, 5.50%, Maturing October 30, 2015 2,031,720

**Mitchell International, Inc.**

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	1,000	Term Loan - Second Lien, 5.56%, Maturing March 28, 2015	852,500
<b>NE Customer Service</b>			
	1,775	Term Loan, 6.00%, Maturing March 5, 2016	1,770,378
<b>Protection One, Inc.</b>			
	123	Term Loan, 2.53%, Maturing March 31, 2012	122,881
	695	Term Loan, 6.25%, Maturing March 31, 2014	696,419
<b>Quantum Corp.</b>			
	198	Term Loan, 3.79%, Maturing July 12, 2014	192,629
<b>Quintiles Transnational Corp.</b>			
	990	Term Loan, 2.30%, Maturing March 31, 2013	973,996
	1,700	Term Loan - Second Lien, 4.30%, Maturing March 31, 2014	1,683,000
<b>Sabre, Inc.</b>			
	6,002	Term Loan, 2.30%, Maturing September 30, 2014	5,718,911
<b>Safenet, Inc.</b>			
	1,995	Term Loan, 2.76%, Maturing April 12, 2014	1,927,545
<b>Serena Software, Inc.</b>			
	474	Term Loan, 2.25%, Maturing March 10, 2013	459,385
<b>Sitel (Client Logic)</b>			
	1,567	Term Loan, 5.79%, Maturing January 29, 2014	1,551,035
<b>Solera Holdings, LLC</b>			
EUR	733	Term Loan, 2.44%, Maturing May 15, 2014	943,799
<b>SunGard Data Systems, Inc.</b>			
	2,226	Term Loan, 2.00%, Maturing February 28, 2014	2,157,211
	6,826	Term Loan, 3.88%, Maturing February 28, 2016	6,799,031
<b>Ticketmaster</b>			
	1,650	Term Loan, 7.00%, Maturing July 22, 2014	1,667,016
<b>Travelport, LLC</b>			
	437	Term Loan, 2.79%, Maturing August 23, 2013	425,434
	3,178	Term Loan, 2.79%, Maturing August 23, 2013	3,093,772
EUR	1,054	Term Loan, 3.14%, Maturing August 23, 2013	1,362,711
<b>West Corp.</b>			
	1,367	Term Loan, 2.64%, Maturing October 24, 2013	1,336,369

See notes to financial statements

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Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

## PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b> (000 s omitted)	<b>Borrower/Tranche Description</b>	<b>Value</b>
Business Equipment and Services (continued)		
1,986	Term Loan, 4.14%, Maturing July 15, 2016	\$ 1,979,725
		<b>\$ 60,702,760</b>
Cable and Satellite Television 11.5%		
<b>Atlantic Broadband Finance, LLC</b>		
2,559	Term Loan, 6.75%, Maturing June 8, 2013	\$ 2,571,141
95	Term Loan, 2.55%, Maturing September 1, 2013	94,265
<b>Bragg Communications, Inc.</b>		
2,096	Term Loan, 2.75%, Maturing August 31, 2014	2,080,528
<b>Bresnan Broadband Holdings, LLC</b>		
495	Term Loan, 2.31%, Maturing March 29, 2014	489,431
600	Term Loan - Second Lien, 4.76%, Maturing March 29, 2014	600,000
<b>Cequel Communications, LLC</b>		
2,157	Term Loan, 2.29%, Maturing November 5, 2013	2,122,008
1,309	Term Loan, 6.29%, Maturing May 5, 2014	1,325,560
2,050	Term Loan - Second Lien, 4.75%, Maturing May 5, 2014	2,058,200
<b>Charter Communications Operating, Inc.</b>		
9,796	Term Loan, 2.30%, Maturing April 28, 2013	9,312,712
<b>CSC Holdings, Inc.</b>		

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	2,907	Term Loan, 2.00%, Maturing March 29, 2016	2,901,273
<b>CW Media Holdings, Inc.</b>			
	578	Term Loan, 3.29%, Maturing February 15, 2015	549,751
<b>Foxco Acquisition Sub., LLC</b>			
	569	Term Loan, 7.50%, Maturing July 2, 2015	566,553
<b>Insight Midwest Holdings, LLC</b>			
	3,594	Term Loan, 2.27%, Maturing April 6, 2014	3,519,680
<b>MCC Iowa, LLC</b>			
	5,704	Term Loan, 2.01%, Maturing January 31, 2015	5,499,935
<b>Mediacom Broadband, LLC</b>			
	1,475	Term Loan, Maturing October 20, 2017 <sup>(6)</sup>	1,476,106
<b>Mediacom Illinois, LLC</b>			
	3,674	Term Loan, 2.01%, Maturing January 31, 2015	3,533,157
	995	Term Loan, 5.50%, Maturing March 31, 2017	1,001,468
<b>Mediacom, LLC</b>			
	825	Term Loan, 4.50%, Maturing October 20, 2017	825,774
<b>ProSiebenSat.1 Media AG</b>			
EUR	907	Term Loan, 2.41%, Maturing June 26, 2014	1,083,574
EUR	93	Term Loan, 2.41%, Maturing July 2, 2014	110,927
EUR	410	Term Loan, 3.34%, Maturing March 2, 2015	439,153
EUR	97	Term Loan, 2.54%, Maturing June 26, 2015	118,695
EUR	2,187	Term Loan, 2.54%, Maturing June 26, 2015	2,670,761
EUR	410	Term Loan, 3.59%, Maturing March 2, 2016	439,153
EUR	371	Term Loan, 7.96%, Maturing March 2, 2017 <sup>(2)</sup>	301,402
EUR	520	Term Loan - Second Lien, 4.71%, Maturing September 2, 2016	508,833
<b>UPC Broadband Holding B.V.</b>			
	1,264	Term Loan, 2.18%, Maturing December 31, 2014	1,234,138
	1,686	Term Loan, 3.93%, Maturing December 31, 2016	1,667,716
EUR	2,353	Term Loan, 4.15%, Maturing December 31, 2016	2,990,422
EUR	2,697	Term Loan, 4.99%, Maturing December 31, 2017	3,464,617
<b>Virgin Media Investment Holding</b>			



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GBP	1,000	Term Loan, 4.41%, Maturing December 31, 2015	1,520,078
<b>YPSO Holding SA</b>			
EUR	210	Term Loan, 4.16%, Maturing July 28, 2014 <sup>(2)</sup>	237,352
EUR	250	Term Loan, 4.16%, Maturing July 28, 2014 <sup>(2)</sup>	283,157
EUR	544	Term Loan, 4.16%, Maturing July 28, 2014 <sup>(2)</sup>	615,034
			<b>\$ 58,212,554</b>

Chemicals and Plastics 6.6%

**Arizona Chemical, Inc.**

500	Term Loan - Second Lien, 5.75%, Maturing February 28, 2014	\$ 488,750
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**Brenntag Holding GmbH and Co. KG**

1,493	Term Loan, 4.03%, Maturing December 23, 2013	1,497,034
220	Term Loan, 4.07%, Maturing December 23, 2013	220,665
1,000	Term Loan - Second Lien, 6.47%, Maturing December 23, 2015	1,003,500

**Celanese Holdings, LLC**

2,109	Term Loan, 2.04%, Maturing April 2, 2014	2,070,170
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**Hexion Specialty Chemicals, Inc.**

486	Term Loan, 4.06%, Maturing May 5, 2015	461,938
772	Term Loan, 4.06%, Maturing May 5, 2015	745,639
1,744	Term Loan, 4.06%, Maturing May 5, 2015	1,683,325

**Huntsman International, LLC**

2,272	Term Loan, 2.06%, Maturing August 16, 2012	2,192,079
909	Term Loan, 2.52%, Maturing June 30, 2016	881,489

**INEOS Group**

2,766	Term Loan, 9.50%, Maturing December 14, 2013	2,766,692
2,672	Term Loan, 8.00%, Maturing December 14, 2014	2,672,607
EUR 1,250	Term Loan - Second Lien, 6.40%, Maturing December 14, 2012	1,653,494

**ISP Chemco, Inc.**

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	1,549	Term Loan, 2.06%, Maturing June 4, 2014	1,511,219
<b>Kraton Polymers, LLC</b>			
	1,881	Term Loan, 2.31%, Maturing May 12, 2013	1,814,870
<b>Lyondell Chemical Co.</b>			
	675	Term Loan, 5.50%, Maturing March 14, 2016	678,249
<b>MacDermid, Inc.</b>			
EUR	693	Term Loan, 2.62%, Maturing April 12, 2014	844,011

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

## PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b>		<b>Borrower/Tranche Description</b>	<b>Value</b>
<b>(000 s omitted)</b>			
Chemicals and Plastics (continued)			
<b>Millenium Inorganic Chemicals</b>			
311		Term Loan, 2.54%, Maturing April 30, 2014	\$ 293,306
975		Term Loan - Second Lien, 6.04%, Maturing October 31, 2014	912,437
<b>Momentive Performance Material</b>			
1,669		Term Loan, 2.56%, Maturing December 4, 2013	1,586,187
<b>Nalco Co.</b>			
496		Term Loan, 6.50%, Maturing May 6, 2016	501,109
<b>Rockwood Specialties Group, Inc.</b>			
3,194		Term Loan, 6.00%, Maturing May 15, 2014	3,221,328
<b>Schoeller Arca Systems Holding</b>			
EUR	145	Term Loan, 5.01%, Maturing November 16, 2015	127,000
EUR	412	Term Loan, 5.01%, Maturing November 16, 2015	362,101
EUR	443	Term Loan, 5.01%, Maturing November 16, 2015	389,656
<b>Solutia, Inc.</b>			
2,650		Term Loan, 4.75%, Maturing March 12, 2017	2,671,807
			<b>\$ 33,250,662</b>
Clothing / Textiles	0.2%		
<b>Hanesbrands, Inc.</b>			
1,036			\$ 1,049,357

Term Loan, 5.25%, Maturing  
December 10, 2015

\$ 1,049,357

Conglomerates 3.2%

**Blount, Inc.**

244 Term Loan, 5.50%, Maturing February 9,  
2012 \$ 243,517

**Doncasters (Dunde HoldCo 4 Ltd.)**

395 Term Loan, 4.27%, Maturing July 13,  
2015 352,084

395 Term Loan, 4.77%, Maturing July 13,  
2015 352,084

GBP 500 Term Loan - Second Lien, 6.56%,  
Maturing January 13, 2016 573,769

**Jarden Corp.**

600 Term Loan, 2.04%, Maturing January 24,  
2012 598,280

1,065 Term Loan, 2.04%, Maturing January 24,  
2012 1,062,254

**Manitowoc Company, Inc. (The)**

2,263 Term Loan, 7.50%, Maturing August 21,  
2014 2,271,499

**Polymer Group, Inc.**

1,923 Term Loan, 7.00%, Maturing  
November 22, 2014 1,939,406

**RBS Global, Inc.**

780 Term Loan, 2.56%, Maturing July 19,  
2013 753,551

3,785 Term Loan, 2.81%, Maturing July 19,  
2013 3,704,408

**RGIS Holdings, LLC**

127 Term Loan, 2.79%, Maturing April 30,  
2014 120,821

2,547 Term Loan, 2.79%, Maturing April 30,  
2014 2,416,416

**US Investigations Services, Inc.**

992 Term Loan, 3.27%, Maturing  
February 21, 2015 927,844

**Vertrue, Inc.**

804 Term Loan, 3.30%, Maturing August 16,  
2014 685,782

\$ 16,001,715

Containers and Glass Products 4.1%

**Berry Plastics Corp.**

1,980 Term Loan, 2.26%, Maturing April 3,  
2015 \$ 1,854,493

**Consolidated Container Co.**

1,000 Term Loan - Second Lien, 5.75%,  
Maturing September 28, 2014 902,500

**Crown Americas, Inc.**

600 Term Loan, 2.00%, Maturing  
November 15, 2012 594,250

**Graham Packaging Holdings Co.**

2,019 Term Loan, 2.50%, Maturing October 7,  
2011 2,007,982

1,694 Term Loan, 6.75%, Maturing April 5,  
2014 1,710,396

**Graphic Packaging International, Inc.**

3,985 Term Loan, 2.30%, Maturing May 16,  
2014 3,931,575

426 Term Loan, 3.04%, Maturing May 16,  
2014 424,275

**JSG Acquisitions**

1,189 Term Loan, 3.67%, Maturing  
December 31, 2013 1,184,195

1,189 Term Loan, 3.92%, Maturing  
December 13, 2014 1,184,195

**Owens-Brockway Glass Container**

1,540 Term Loan, 1.75%, Maturing June 14,  
2013 1,527,370

**Reynolds Group Holdings, Inc.**

1,963 Term Loan, 6.25%, Maturing  
November 5, 2015 1,975,414

**Smurfit-Stone Container Corp.**

1,466 Revolving Loan, 2.90%, Maturing  
July 28, 2010 1,473,576

487 Revolving Loan, 3.05%, Maturing  
July 28, 2010 489,913

191 Term Loan, 2.50%, Maturing  
November 1, 2011 190,841

336 Term Loan, 2.50%, Maturing  
November 1, 2011 334,047

633 Term Loan, 2.50%, Maturing  
November 1, 2011 631,206

295 Term Loan, 4.50%, Maturing  
November 1, 2011 293,532

**\$ 20,709,760**

Cosmetics / Toiletries 1.0%

**Alliance Boots Holdings, Ltd.**

EUR 1,000 Term Loan, Maturing July 5, 2015<sup>(6)</sup> \$ 1,263,768

**American Safety Razor Co.**

470 Term Loan, 6.75%, Maturing July 31,  
2013 436,140

900 Term Loan - Second Lien, 10.50%,  
Maturing July 31, 2014 532,500

See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b> (000 s omitted)	<b>Borrower/Tranche Description</b>	<b>Value</b>
Cosmetics / Toiletries (continued)		
<b>Bausch &amp; Lomb, Inc.</b>		
293	Term Loan, 3.54%, Maturing April 30, 2015	\$ 287,146
1,207	Term Loan, 3.54%, Maturing April 30, 2015	1,184,004
<b>KIK Custom Products, Inc.</b>		
975	Term Loan - Second Lien, 5.32%, Maturing November 30, 2014	643,500
<b>Prestige Brands, Inc.</b>		
850	Term Loan, 4.75%, Maturing March 17, 2016	858,500
		<b>\$ 5,205,558</b>
Drugs 0.8%		
<b>Graceway Pharmaceuticals, LLC</b>		
1,412	Term Loan, 3.02%, Maturing May 3, 2012	\$ 1,205,252
277	Term Loan, 8.52%, Maturing November 3, 2013 <sup>(2)</sup>	58,851
1,500	Term Loan - Second Lien, 6.77%, Maturing May 3, 2013	858,750
<b>Pharmaceutical Holdings Corp.</b>		
173	Term Loan, 3.53%, Maturing January 30, 2012	170,698
<b>Warner Chilcott Corp.</b>		
732	Term Loan, 5.50%, Maturing October 30, 2014	734,018
337	Term Loan, 5.75%, Maturing April 30, 2015	337,959

561	Term Loan, 5.75%, Maturing April 30, 2015	562,763
		<b>\$ 3,928,291</b>
Ecological Services and Equipment 2.1%		
<b>Blue Waste B.V. (AVR Acquisition)</b>		
EUR	1,000 Term Loan, 2.66%, Maturing April 1, 2015	\$ 1,263,213
<b>Cory Environmental Holdings</b>		
GBP	500 Term Loan - Second Lien, 4.85%, Maturing September 30, 2014	592,895
<b>Environmental Systems Products Holdings, Inc.</b>		
	955 Term Loan - Second Lien, 13.50%, Maturing December 12, 2010	929,886
<b>Kemble Water Structure, Ltd.</b>		
GBP	4,250 Term Loan - Second Lien, 4.88%, Maturing October 13, 2013	5,844,316
<b>Sensus Metering Systems, Inc.</b>		
	2,058 Term Loan, 7.00%, Maturing June 3, 2013	2,060,932
		<b>\$ 10,691,242</b>

Electronics / Electrical 5.1%

**Aspect Software, Inc.**

1,664	Term Loan, 3.31%, Maturing July 11, 2011	\$ 1,657,192
1,800	Term Loan - Second Lien, 7.31%, Maturing July 11, 2013	1,784,624

**Christie/Aix, Inc.**

750	Term Loan, Maturing April 22, 2016 <sup>(6)</sup>	751,875
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**FCI International S.A.S.**

156	Term Loan, 3.67%, Maturing November 1, 2013	148,509
162	Term Loan, 3.67%, Maturing November 1, 2013	154,259
162	Term Loan, 3.67%, Maturing November 1, 2013	154,259
156	Term Loan, 3.67%, Maturing November 1, 2013	148,509



**Freescale Semiconductor, Inc.**

2,802	Term Loan, 4.50%, Maturing December 1, 2016	2,698,041
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**Infor Enterprise Solutions Holdings**

2,872	Term Loan, 6.03%, Maturing December 1, 2013	2,789,326
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500	Term Loan, 5.77%, Maturing March 2, 2014	415,000
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1,498	Term Loan, 6.03%, Maturing July 28, 2015	1,453,427
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183	Term Loan - Second Lien, 6.52%, Maturing March 2, 2014	148,958
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317	Term Loan - Second Lien, 6.52%, Maturing March 2, 2014	263,625
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**Network Solutions, LLC**

542	Term Loan, 2.55%, Maturing March 7, 2014	518,615
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**Open Solutions, Inc.**

2,037	Term Loan, 2.45%, Maturing January 23, 2014	1,841,272
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**Sensata Technologies Finance Co.**

2,714	Term Loan, 2.08%, Maturing April 27, 2013	2,625,708
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**Spectrum Brands, Inc.**

255	Term Loan, 8.00%, Maturing March 30, 2013	255,498
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3,982	Term Loan, 8.00%, Maturing March 30, 2013	3,982,880
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**VeriFone, Inc.**

2,036	Term Loan, 3.03%, Maturing October 31, 2013	2,005,583
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**Vertafore, Inc.**

2,195	Term Loan, 5.50%, Maturing July 31, 2014	2,134,929
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**\$ 25,932,089**

Equipment Leasing 0.6%

**AWAS Capital, Inc.**

475	Term Loan, 2.06%, Maturing March 22, 2013	\$ 448,224
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1,582	Term Loan - Second Lien, 6.31%, Maturing March 22, 2013	1,324,711
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**Hertz Corp.**

1,070	Term Loan, 2.01%, Maturing December 21, 2012	1,058,501
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15	Term Loan, 2.02%, Maturing December 21, 2012	14,646
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**\$ 2,846,082**

Farming / Agriculture 0.8%

**CF Industries, Inc.**

2,350	Term Loan, 5.75%, Maturing April 16, 2015	2,368,213
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See notes to financial statements

Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

## PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b>	<b>Borrower/Tranche Description</b>	<b>Value</b>
(000 s omitted)		
Farming / Agriculture (continued)		
<b>Wm. Bolthouse Farms, Inc.</b>		
1,725	Term Loan, 5.50%, Maturing January 25, 2016	\$ 1,738,477
		<b>\$ 4,106,690</b>
Financial Intermediaries 2.8%		
<b>Citco III, Ltd.</b>		
2,868	Term Loan, 4.43%, Maturing June 30, 2014	\$ 2,781,709
<b>First Data Corp.</b>		
995	Term Loan, 3.01%, Maturing September 24, 2014	896,960
1,995	Term Loan, 3.03%, Maturing September 24, 2014	1,795,618
<b>Grosvenor Capital Management</b>		
1,358	Term Loan, 2.25%, Maturing December 5, 2013	1,248,960
<b>Jupiter Asset Management Group</b>		
GBP 405	Term Loan, 2.71%, Maturing June 30, 2015	591,562
<b>LPL Holdings, Inc.</b>		
3,970	Term Loan, 2.04%, Maturing December 18, 2014	3,873,054
<b>Nuveen Investments, Inc.</b>		
2,330	Term Loan, 3.32%, Maturing November 2, 2014	2,136,550
<b>Oxford Acquisition III, Ltd.</b>		
382	Term Loan, 2.31%, Maturing May 24, 2014	356,570

**RJO Holdings Corp. (RJO Brien)**

455	Term Loan, 5.26%, Maturing July 31, 2014 <sup>(2)</sup>	307,627
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**\$ 13,988,610**

Food Products 2.8%

**Acosta, Inc.**

2,986	Term Loan, 2.53%, Maturing July 28, 2013	\$ 2,950,727
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**Dole Food Company, Inc.**

108	Term Loan, 7.99%, Maturing April 12, 2013	109,017
982	Term Loan, 5.01%, Maturing February 1, 2017	993,593
395	Term Loan, 5.04%, Maturing February 1, 2017	400,038

**Pinnacle Foods Finance, LLC**

6,568	Term Loan, 3.00%, Maturing April 2, 2014	6,410,150
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**Provimi Group SA**

205	Term Loan, 2.52%, Maturing June 28, 2015	196,898
252	Term Loan, 2.52%, Maturing June 28, 2015	242,308
EUR 265	Term Loan, 2.66%, Maturing June 28, 2015	339,085
EUR 439	Term Loan, 2.66%, Maturing June 28, 2015	560,809
EUR 457	Term Loan, 2.66%, Maturing June 28, 2015	584,371
EUR 590	Term Loan, 2.66%, Maturing June 28, 2015	753,575
EUR 24	Term Loan - Second Lien, 4.66%, Maturing June 28, 2015	27,689
148	Term Loan - Second Lien, 4.52%, Maturing December 28, 2016	127,484
EUR 331	Term Loan - Second Lien, 4.66%, Maturing December 28, 2016	379,233

**\$ 14,074,977**

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Food Service 3.6%

**AFC Enterprises, Inc.**

288 Term Loan, 7.00%, Maturing May 11, 2011 \$ 291,126

**Aramark Corp.**

2,566 Term Loan, 2.17%, Maturing January 26, 2014 2,524,781

169 Term Loan, 2.17%, Maturing January 26, 2014 166,259

GBP 968 Term Loan, 2.77%, Maturing January 27, 2014 1,421,111

4,621 Term Loan, 3.54%, Maturing July 26, 2016 4,600,936

304 Term Loan, 3.54%, Maturing July 26, 2016 302,580

**Buffets, Inc.**

105 Term Loan, 7.53%, Maturing November 1, 2013 102,234

1,250 Term Loan, Maturing April 21, 2015<sup>(6)</sup> 1,235,548

8 Term Loan, 7.39%, Maturing April 22, 2015 7,707

**CBRL Group, Inc.**

963 Term Loan, 1.75%, Maturing April 27, 2013 957,665

582 Term Loan, 2.75%, Maturing April 27, 2016 581,947

**NPC International, Inc.**

308 Term Loan, 2.05%, Maturing May 3, 2013 299,327

**OSI Restaurant Partners, LLC**

264 Term Loan, 2.54%, Maturing May 9, 2013 239,802

2,881 Term Loan, 2.63%, Maturing May 9, 2014 2,617,011

**QCE Finance, LLC**

1,129 Term Loan, 5.06%, Maturing May 5, 2013 1,039,408

950 Term Loan - Second Lien, 6.04%, Maturing November 5, 2013 706,800

**Sagittarius Restaurants, LLC**

349 Term Loan, 9.50%, Maturing March 29, 2013 349,496

**Selecta**

EUR 741 Term Loan - Second Lien, 4.99%, Maturing December 28, 2015 720,460

**\$ 18,164,198**

Food / Drug Retailers 4.2%

**General Nutrition Centers, Inc.**

6,285	Term Loan, 2.54%, Maturing September 16, 2013	\$ 6,121,321
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**Pantry, Inc. (The)**

222	Term Loan, 2.03%, Maturing May 15, 2014	213,951
771	Term Loan, 2.03%, Maturing May 15, 2014	743,099

**Rite Aid Corp.**

8,259	Term Loan, 2.01%, Maturing June 1, 2014	7,664,955
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Eaton Vance Senior Floating-Rate Trust as of April 30, 2010

PORTFOLIO OF INVESTMENTS (Unaudited) CONT D

<b>Principal Amount*</b>	<b>(000 s omitted) Borrower/Tranche Description</b>	<b>Value</b>
Food / Drug Retailers (continued)		
1,059	Term Loan, 6.00%, Maturing June 4, 2014	\$ 1,047,908
1,000	Term Loan, 9.50%, Maturing June 4, 2014	1,045,833
<b>Roundys Supermarkets, Inc.</b>		
3,314	Term Loan, 6.25%, Maturing November 3, 2013	3,344,858
1,000	Term Loan - Second Lien, Maturing April 14, 2016 <sup>(6)</sup>	1,018,750
		<b>\$ 21,200,675</b>

Forest Products 1.8%

**Georgia-Pacific Corp.**

5,945	Term Loan, 2.27%, Maturing December 20, 2012	\$ 5,918,940
1,778	Term Loan, 2.33%, Maturing December 20, 2012	1,770,198