

EATON VANCE SENIOR FLOATING RATE TRUST

Form N-2

October 23, 2015

As filed with the Securities and Exchange Commission on October 23, 2015

1933 Act File No. 333-_____

1940 Act File No. 811-21411

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

FORM N-2

REGISTRATION STATEMENT
UNDER

THE SECURITIES ACT of 1933	x
PRE-EFFECTIVE AMENDMENT NO.	o
POST-EFFECTIVE AMENDMENT NO.	..

and/or

REGISTRATION STATEMENT
UNDER

THE INVESTMENT COMPANY ACT OF 1940	o
AMENDMENT NO. 14	x

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)

(617) 482-8260
(Registrant's Telephone Number)

Frederick S. Marius
Two International Place, Boston, Massachusetts 02110
(Name and Address of Agent for Service)

Approximate Date of Proposed Public Offering: As soon as practicable after the effective date of this Registration Statement.

If any of the securities being registered on this form are to be offered on a delayed or continuous basis in reliance on Rule 415 under the Securities Act of 1933, as amended, other than securities offered in connection with a dividend reinvestment plan, check the following box. x

It is proposed that this filing will become effective (check appropriate box):

.. When declared effective pursuant to Section 8(c)

CALCULATION OF REGISTRATION FEE UNDER THE SECURITIES ACT OF 1933

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

Title of Securities Being Registered	Amount Being Registered ⁽¹⁾	Proposed Maximum Offering Price Per Unit (1)	Proposed Maximum Aggregate Offering Price ⁽¹⁾	Amount of Registration Fees ⁽¹⁾
Common Shares \$0.01 par value	1,000 Shares	\$12.96	\$12,960	\$1.31

(1)

Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(c) under the Securities Act of 1933 based on the average of the high and low sales prices of the shares of beneficial interest on October 21, 2015 as reported on the New York Stock Exchange.

The Registrant hereby amends this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrant shall file a further amendment which specifically states this Registration Statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, as amended or until the Registration Statement shall become effective on such dates as the Commission, acting pursuant to said Section 8(a), may determine.

PRELIMINARY PROSPECTUS SUBJECT TO COMPLETION [____], 2015

The information in this prospectus is not complete and may be changed. These securities may not be sold until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any jurisdiction where the offer or sale would be prohibited ..

(EATON VANCE LOGO)

[_____] Shares

Eaton Vance Senior Floating-Rate Trust

Common Shares

Investment objectives and policies. Eaton Vance Senior Floating-Rate Trust (the Trust) is a diversified, closed-end management investment company, which commenced operations in November 2003. The Trust's 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 goal of high current income. The Trust will seek to achieve its investment objectives by investing primarily in senior, secured floating - rate loans (Senior Loans). Floating - rate loans are loans in which the interest rate paid fluctuates based on a reference rate. Under normal market conditions, Eaton Vance Management, the Trust's investment adviser, expects the Trust to maintain an average duration of less than one year (including the effect of anticipated leverage).

Investment Adviser. The Trust's investment adviser is Eaton Vance Management (Eaton Vance or the Adviser). As of September 30 , 2015, Eaton Vance and its affiliates managed approximately \$ 298.9 billion of fund and separate account assets on behalf of clients, including approximately \$ 35.5 billion in floating-rate income assets.

The Offering. The Trust may offer, from time to time, in one or more offerings (each, an Offering), the Trust's common shares of beneficial interest, \$0.01 par value (Common Shares). Common Shares may be offered at prices and on terms to be set forth in one or more supplements to this Prospectus (each, a Prospectus Supplement). You should read this Prospectus and the applicable Prospectus Supplement carefully before you invest in Common Shares. Common Shares may be offered directly to one or more purchasers, through agents designated from time to time by us, or to or through underwriters or dealers. The Prospectus Supplement relating to the Offering will identify any agents, underwriters or dealers involved in the offer or sale of Common Shares, and will set forth any applicable offering price, sales load, fee, commission or discount arrangement between the Trust and its agents or underwriters, or among its underwriters, or the basis upon which such amount may be calculated, net proceeds and use of proceeds, and the terms of any sale. The Trust may not sell any Common Shares through agents, underwriters or dealers without delivery of a Prospectus Supplement describing the method and terms of the particular Offering of the Common Shares.

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

The Common Shares have traded both at a premium and a discount to net asset value (NAV). The Trust cannot predict whether Common Shares will trade in the future at a premium or discount to NAV. The provisions of the Investment Company Act of 1940, as amended (the 1940 Act) generally require that the public offering price of common shares (less any underwriting commissions and discounts) must equal or exceed the NAV per share of a company s common stock (calculated within 48 hours of pricing). The Trust s issuance of Common Shares may have an adverse effect on prices in the secondary market for the Trust s Common Shares by increasing the number of Common Shares available, which may put downward pressure on the market price for the Trust s Common Shares. Shares of common stock of closed-end investment companies frequently trade at a discount from NAV, which may increase investors risk of loss.

Investing in shares involves certain risks, including that the Trust will invest substantial portions of its assets in below investment grade quality securities with speculative characteristics. See Investment objectives, policies and risks beginning at page 19 ..

Neither the Securities and Exchange Commission (SEC) nor any state securities commission has approved or disapproved of these securities or determined if this Prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

(continued from previous page)

Portfolio contents. The Trust will pursue its objectives by investing its assets primarily in Senior Loans. Under normal market conditions, the Trust will invest at least 80% of its total assets in Senior Loans of domestic and foreign borrowers that are denominated in U.S. dollars, euros, British pounds, Swiss francs, Canadian dollars and Australian dollars (each an Authorized Foreign Currency). Senior Loans are made to corporations, partnerships and other business entities (Borrowers) which operate in various industries and geographical regions, including foreign Borrowers. Senior Loans pay interest at rates which are redetermined periodically on the basis of a floating base lending rate plus a premium. Senior Loans typically are of below investment grade quality and have below investment grade credit ratings, which ratings are associated with securities having high risk, speculative characteristics (sometimes referred to as junk). Because of the protective features of Senior Loans (being both senior in a Borrower's capital structure and secured by specific collateral), the Adviser believes, based on its experience, that Senior Loans tend to have more favorable loss recovery rates compared to most other types of below investment grade obligations which are subordinated and unsecured.

Leverage. The Trust currently uses leverage created by issuing Auction Preferred Shares (APS) as well as by loans acquired with borrowings. On January 26, 2004, the Trust issued 3,940 Series A APS, 3,940 Series B APS, 3,940 Series C APS and 3,940 Series D APS, with a liquidation preference per share of \$25,000 plus accumulated but unpaid dividends. In addition, the Trust has entered into a credit agreement (the Agreement) with a bank to borrow up to a limit of \$220 million pursuant to a 364-day revolving line of credit. The Trust is required to maintain certain net asset levels during the term of the Agreement. As of April 30, 2015, the Trust had \$200 million in outstanding borrowings, at an interest rate of 0.95%, in addition to outstanding APS.

The Adviser anticipates that the use of leverage (from the issuance of APS and borrowings) will result in higher income to holders of Common Shares (Common Shareholders) over time. Use of financial leverage creates an opportunity for increased income but, at the same time, creates special risks. There can be no assurance that a leveraging strategy will be successful. The fee paid to Eaton Vance will be calculated on the basis of the Trust's gross assets, including proceeds from the issuance of APS and borrowings, so the fees will be higher when leverage is utilized. In this regard, holders of debt or preferred securities do not bear the investment advisory fee. Rather, Common Shareholders bear the portion of the investment advisory fee attributable to the assets purchased with the proceeds, which means that Common Shareholders effectively bear the entire advisory fee. See Investment Objectives, Policies and Risks Use of Leverage and Related Risks at page 28, Investment Objectives, Policies and Risks Additional Risk Considerations at page 30 and Description of Capital Structure at page 39.

Exchange listing. As of October 21, 2015, the Trust had 36,841,535 Common Shares outstanding as well as 5,252 APS outstanding. The Trust's Common Shares are traded on the New York Stock Exchange (NYSE) under the symbol EFR. As of October 21, 2015, the last reported sales price of a Common Share of the Trust on the NYSE was \$12.95. Common Shares offered and sold pursuant to this Registration Statement will also be listed on the NYSE and trade under this symbol.

This Prospectus, together with any applicable Prospectus Supplement, sets forth concisely information you should know before investing in the shares of the Trust. Please read and retain this Prospectus for future reference. A Statement of Additional Information dated [____], 2015, has been filed with the SEC and can be obtained without charge by calling 1-800-262-1122 or by writing to the Trust. A table of contents to the Statement of Additional Information is located at page 44 of this Prospectus. This Prospectus incorporates by reference the entire Statement of Additional Information. The Statement of Additional Information is available along with other Trust-related materials: at the SEC's public reference room in Washington, DC (call 1-202-942-8090 for information on the operation of the reference room); the EDGAR database on the SEC's internet site (<http://www.sec.gov>); upon payment of copying fees by writing to the SEC's public reference section, Washington, DC 20549-0102; or by electronic mail at publicinfo@sec.gov. The Trust's principal office is located at Two International Place, Boston, MA 02110, and its telephone number is 1-800-262-1122.

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

The Trust's shares do not represent a deposit or obligation of, and are not guaranteed or endorsed by, any bank or other insured depository institution, and are not federally insured by the Federal Deposit Insurance Corporation, the Federal Reserve Board or any other government agency.

You should rely only on the information contained or incorporated by reference in this Prospectus. The Trust has not authorized anyone to provide you with different information. The Trust is not making an offer of these securities in any state where the offer is not permitted. You should not assume that the information contained in this Prospectus is accurate as of any date other than the date on the front of this Prospectus.

Eaton Vance Senior Floating-Rate Trust

2

Prospectus dated [____], 2015

CAUTIONARY NOTICE REGARDING FORWARD-LOOKING STATEMENTS

This Prospectus, any accompanying Prospectus Supplement and the Statement of Additional Information contain forward-looking statements. Forward-looking statements can be identified by the words may, will, intend, expect, estimate, continue, plan, anticipate, and similar terms and the negative of such terms. Such forward-looking statements may be contained in this Prospectus as well as in any accompanying Prospectus Supplement. By their nature, all forward-looking statements involve risks and uncertainties, and actual results could differ materially from those contemplated by the forward-looking statements. Several factors that could materially affect our actual results are the performance of the portfolio of securities we hold, the price at which our shares will trade in the public markets and other factors discussed in our periodic filings with the SEC.

Although we believe that the expectations expressed in our forward-looking statements are reasonable, actual results could differ materially from those projected or assumed in our forward-looking statements. Our future financial condition and results of operations, as well as any forward-looking statements, are subject to change and are subject to inherent risks and uncertainties, such as those disclosed in the Investment objectives, policies and risks section of this Prospectus. All forward-looking statements contained or incorporated by reference in this Prospectus or any accompanying Prospectus Supplement are made as of the date of this Prospectus or the accompanying Prospectus Supplement, as the case may be. Except for our ongoing obligations under the federal securities laws, we do not intend, and we undertake no obligation, to update any forward-looking statement. The forward-looking statements contained in this Prospectus, any accompanying prospectus supplement and the statement of additional information are excluded from the safe harbor protection provided by section 27A of the Securities Act of 1933, as amended (the 1933 Act).

Currently known risk factors that could cause actual results to differ materially from our expectations include, but are not limited to, the factors described in the Investment objectives, policies and risks section of this Prospectus. We urge you to review carefully that section for a more detailed discussion of the risks of an investment in our securities.

Prospectus dated [____], 2015

Eaton Vance Senior Floating-Rate Trust

Prospectus dated [____], 2015

Table of Contents

Prospectus summary	5
Summary of Trust expenses	14
Financial highlights and investment performance	15
The Trust	18
Use of proceeds	18
Portfolio composition	19
Investment objectives, policies and risks	19
Management of the Trust	34
Plan of distribution	35
Distributions	36
Federal income tax matters	37
Dividend reinvestment plan	39
Description of capital structure	39
Custodian and Transfer Agent	43
Legal Opinions	43
Reports to Shareholders	43
Independent registered public accounting firm	43
Additional information	43
Table of contents for the Statement of Additional Information	44
The Trust's privacy policy	45

Eaton Vance Senior Floating-Rate Trust

Prospectus summary

The following summary is qualified in its entirety by reference to the more detailed information included elsewhere in this Prospectus, in any related Prospectus Supplement, and in the Statement of Additional Information.

THE TRUST

Eaton Vance Senior Floating-Rate Trust (the Trust) is a diversified, closed-end management investment company, which commenced operations in November 2003. The Trust offers investors the opportunity to receive a high level of current income, through a professionally managed portfolio investing primarily in senior, secured floating - rate loans (Senior Loans), which are normally accessible only to financial institutions and large corporate and institutional investors, and are not widely available to individual investors. To the extent consistent with this objective, the Trust may also offer an opportunity for preservation of capital. Investments are based on Eaton Vance's internal research and ongoing credit analysis, which is generally not available to individual investors. An investment in the Trust may not be appropriate for all investors. There is no assurance that the Trust will achieve its investment objectives.

THE OFFERING

The Trust may offer, from time to time, in one or more offerings (each, an Offering), up to [_____] of the Trust's common shares of beneficial interest, \$0.01 par value (Common Shares), on terms to be determined at the time of the Offering. The Common Shares may be offered at prices and on terms to be set forth in one or more Prospectus Supplements. You should read this Prospectus and the applicable Prospectus Supplement carefully before you invest in Common Shares. Common Shares may be offered directly to one or more purchasers, through agents designated from time to time by the Trust, or to or through underwriters or dealers. The Prospectus Supplement relating to the Offering will identify any agents, underwriters or dealers involved in the offer or sale of Common Shares, and will set forth any applicable offering price, sales load, fee, commission or discount arrangement between the Trust and its agents or underwriters, or among its underwriters, or the basis upon which such amount may be calculated, net proceeds and use of proceeds, and the terms of any sale. See Plan of Distribution. The Trust may not sell any of Common Shares through agents, underwriters or dealers without delivery of a Prospectus Supplement describing the method and terms of the particular Offering of Common Shares.

INVESTMENT OBJECTIVES, POLICIES AND RISKS

The Trust's 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 goal of high current income. Under normal market conditions, Eaton Vance expects the Trust to maintain a duration of less than one year (including the effect of anticipated leverage). The Trust pursues its objectives by investing primarily in Senior Loans. Senior Loans are loans in which the interest rate paid fluctuates based on a reference rate. Senior Loans are made to corporations, partnerships and other business entities (Borrowers) which operate in various industries and geographical regions. Senior Loans pay interest at rates that are reset periodically by reference to a base lending rate, primarily the London Interbank Offered Rate (LIBOR), plus a premium. Under normal market conditions, at least 80% of the Trust's total assets will be invested in interests in Senior Loans of domestic and foreign borrowers that are denominated in U.S. dollars, euros, British pounds, Swiss francs, Canadian dollars and Australian dollars (each an Authorized Foreign Currency). It is anticipated that the proceeds of the Senior Loans in which the Trust will acquire interests primarily will be used to finance leveraged buyouts, recapitalizations, mergers, acquisitions, stock repurchases, refinancing, and internal growth and for other corporate purposes of Borrowers.

The Trust may invest up to 20% of its total assets in: (i) loan interests which are not secured by any, or that have a lower than senior claim on, collateral, (ii) other income producing securities such as investment and non-investment grade corporate debt securities and U.S. government and U.S. dollar-denominated foreign government or supranational debt securities, and (iii) warrants and equity securities issued by a Borrower or its affiliates as part of a

package of investments in the Borrower or its affiliates. Corporate bonds of below investment grade quality (Non-Investment Grade Bonds), commonly referred to as junk bonds, are bonds that are rated below investment grade by each of the nationally recognized statistical rating agencies (Rating Agencies) who cover the security, or, if unrated, are determined to be of comparable quality by the Adviser. Standard & Poor's Financial Services LLC (S&P) and Fitch Ratings (Fitch) consider securities rated below BBB- to be below investment grade and Moody's Investors Service, Inc. (Moody's) considers securities rated below Baa3 to be below investment grade. The Trust's credit quality policies apply only at the time a security is purchased, and the Trust is not required to dispose of a security in the event of a downgrade of an assessment of credit quality or the withdrawal of a rating. Securities rated in the lowest investment grade rating (BBB- or Baa3) may have certain speculative characteristics. Below investment grade quality securities are considered to be predominantly speculative because of the credit risk of the issuers. See Investment Objectives, Policies and Risks Special Risk Considerations Non-Investment Grade Bonds risk.

Eaton Vance Senior Floating-Rate Trust

5

Prospectus dated [____], 2015

Under normal market conditions, the Trust expects to maintain an average duration of less than one year (including the effect of anticipated leverage). In comparison to maturity (which is the date on which a debt instrument ceases and the issuer is obligated to repay the principal amount), duration is a measure of the price volatility of a debt instrument as a result of changes in market rates of interest, based on the weighted average timing of the instrument's expected principal and interest payments. Duration differs from maturity in that it considers a security's yield, coupon payments, principal payments and call features in addition to the amount of time until the security finally matures. As the value of a security changes over time, so will its duration. Prices of securities with longer durations tend to be more sensitive to interest rate changes than securities with shorter durations. In general, a portfolio of securities with a longer duration can be expected to be more sensitive to interest rate changes than a portfolio with a shorter duration.

Investing in Senior Loans involves investment risk. Some Borrowers default on their Senior Loan payments. The Trust attempts to manage this credit risk through portfolio diversification and ongoing analysis and monitoring of Borrowers. The Trust also is subject to market, liquidity, interest rate and other risks. See Investment Objectives, Policies and Risks.

Scott H. Page, Craig P. Russ, and Peter M. Campo are portfolio managers of the Trust. Mr. Page has been an Eaton Vance portfolio manager since 1996, is a Vice President of Eaton Vance and is Co-Director of Eaton Vance's Floating Rate Loan Group. Mr. Russ has been an Eaton Vance portfolio manager since 2001, is a Vice President of Eaton Vance and is Co-Director of Eaton Vance's Floating Rate Loan Group. Mr. Campo has been an Eaton Vance portfolio manager since 2008 and is a Vice President of Eaton Vance.

The Trust's investments are actively managed, and Senior Loans and other securities may be bought or sold on a daily basis. The Adviser's staff monitors the credit quality and price of Senior Loans and other securities held by the Trust, as well as other securities that are available to the Trust. The Trust may invest in individual Senior Loans and other securities of any credit quality. Although the Adviser considers ratings when making investment decisions, it performs its own credit and investment analysis and does not rely primarily on the ratings assigned by the Rating Agencies. In evaluating the quality of particular Senior Loans or other securities, whether rated or unrated, the Adviser will normally take into consideration, among other things, the issuer's financial resources and operating history, its sensitivity to economic conditions and trends, the ability of its management, its debt maturity schedules and borrowing requirements, and relative values based on anticipated cash flow, interest and asset coverage, and earnings prospects.

The Trust may invest up to 15% of net assets in Senior Loans denominated in Authorized Foreign Currencies and may invest in other securities of non-United States issuers. The Trust's investments may have significant exposure to certain sectors of the economy and thus may react differently to political or economic developments than the market as a whole. The Trust may accept equity securities in connection with a debt restructuring or reorganization of a Borrower either inside or outside of bankruptcy. The Trust may hold equity securities issued in exchange for a Senior Loan or issued in connection with the debt restructuring or reorganization of a Borrower. The Trust may also acquire additional equity securities of such Borrower or its affiliates if, in the judgment of the Adviser, such an investment may enhance the value of a Senior Loan held or would otherwise be consistent with the Trust's investment policies.

The Trust may purchase or sell derivative instruments (which derive their value from another instrument, security or index) for risk management purposes, such as hedging against fluctuations in Senior Loans and other securities prices or interest rates; diversification purposes; changing the duration of the Trust; or leveraging the Trust. Transactions in derivative instruments may include the purchase or sale of futures contracts on securities, indices and other financial instruments, credit-linked notes, tranches of collateralized loan obligations and/or collateralized debt obligations, options on futures contracts, and exchange-traded and over-the-counter options on securities or indices, and interest rate, total return and credit default swaps. Guidelines of any rating organization that rates any preferred shares issued by the Trust may limit the Trust's ability to engage in such transactions. Subject to the Trust's policy of investing at least 80% of its total assets in Senior Loans and subject to the limitations on the use of futures contracts and related options imposed by Rule 4.5 of the Commodity Futures Trading Commission (the "CFTC"), the Trust may invest,

without limitation, in the foregoing derivative instruments for the purposes stated herein.

LISTING

As of October 21, 2015, the Trust had 36,841,535 Common Shares outstanding as well as 5,252 auction preferred shares (APS) outstanding. The Trust's Common Shares are traded on the New York Stock Exchange (NYSE) under the symbol EFR. As of October 21, 2015, the last reported sales price of a Common Share of the Trust on the NYSE was \$ 12.95 .. Common Shares offered and sold pursuant to this Registration Statement will also be listed on the NYSE and trade under this symbol.

Eaton Vance Senior Floating-Rate Trust

6

Prospectus dated [____], 2015

LEVERAGE

The Trust currently uses leverage created by issuing APS as well as by loans acquired with borrowings. On January 26, 2004, the Trust issued 3,940 Series A APS, 3,940 Series B APS, 3,940 Series C APS and 3,940 Series D APS, with a liquidation preference per share of \$25,000 plus accumulated but unpaid dividends. As of December 31, 2012, 2,627 Series A APS, 2,627 Series B APS, 2,627 Series C APS and 2,627 Series D APS had been redeemed. The APS have seniority over the Common Shares. In addition, the Trust has entered into a Credit Agreement (the Agreement) with a bank to borrow up to a limit of \$220 million pursuant to a 364-day revolving line of credit. Borrowings under the Agreement are secured by the assets of the Trust. Interest is charged at a rate above LIBOR and is payable monthly. Under the terms of the Agreement, the Trust pays a commitment fee of 0.15% on the borrowing limit. In connection with the renewal of the Agreement on March 24, 2015, the Trust paid an upfront fee of \$55,000, which is being amortized to interest expense through March 22, 2016, the termination date of the Agreement. The Trust is required to maintain certain net asset levels during the term of the Agreement. As of April 30, 2015, the Trust had \$200 million in outstanding borrowings, at an interest rate of 0.95%, in addition to outstanding APS. The Adviser anticipates that the use of leverage (from such issuance of APS and borrowings) may result in higher income to holders of Common Shares (Common Shareholders) over time. Use of financial leverage creates an opportunity for increased income but, at the same time, creates special risks. There can be no assurance that a leveraging strategy will be successful.

The costs of the financial leverage program (from any issuance of preferred shares and any borrowings) are borne by Common Shareholders and consequently result in a reduction of the NAV of Common Shares. During periods in which the Trust is using leverage, the fees paid to Eaton Vance for investment advisory services will be higher than if the Trust did not use leverage because the fees paid will be calculated on the basis of the Trust's gross assets, which include proceeds from the issuance of preferred shares and borrowings. In this regard, holders of debt or preferred securities do not bear the investment advisory fee. Rather, Common Shareholders bear the portion of the investment advisory fee attributable to the assets purchased with the proceeds, which means that Common Shareholders effectively bear the entire advisory fee. See Investment Objectives, Policies and Risks Use of Leverage and Related Risks and Management of the Trust The Adviser.

Financial leverage may also be achieved through the purchase of certain derivative instruments. The Trust's use of derivative instruments exposes the Trust to special risks. See Investment Objectives, Policies and Risks Additional Investment Practices and Investment Objectives, Policies and Risks Additional Risk Considerations.

INVESTMENT ADVISER AND ADMINISTRATOR

Eaton Vance, a wholly-owned subsidiary of Eaton Vance Corp., is the Trust's investment adviser and administrator. As of September 30, 2015, Eaton Vance and its affiliates managed approximately \$298.9 billion of fund and separate account assets on behalf of clients, including approximately \$35.5 billion in floating-rate income assets. See Management of the Trust.

PLAN OF DISTRIBUTION

The Trust may sell the Common Shares being offered under this Prospectus in any one or more of the following ways: (i) directly to purchasers; (ii) through agents; (iii) to or through underwriters; or (iv) through dealers. The Prospectus Supplement relating to the Offering will identify any agents, underwriters or dealers involved in the offer or sale of Common Shares, and will set forth any applicable offering price, sales load, fee, commission or discount arrangement between the Trust and its agents or underwriters, or among its underwriters, or the basis upon which such amount may be calculated, net proceeds and use of proceeds, and the terms of any sale.

The Trust may distribute Common Shares from time to time in one or more transactions at: (i) a fixed price or prices that may be changed; (ii) market prices prevailing at the time of sale; (iii) prices related to prevailing market prices; or

(iv) negotiated prices; provided, however, that in each case the offering price per Common Share (less any underwriting commission or discount) must equal or exceed the NAV per Common Share.

The Trust from time to time may offer its Common Shares through or to certain broker-dealers, including [_____], that have entered into selected dealer agreements relating to at-the-market offerings.

The Trust may directly solicit offers to purchase Common Shares, or the Trust may designate agents to solicit such offers. The Trust will, in a Prospectus Supplement relating to such Offering, name any agent that could be viewed as an underwriter under the 1933 Act , and describe any commissions the Trust must pay to such agent(s). Any such agent will be acting on a reasonable best efforts basis for the period of its appointment or, if indicated in the applicable Prospectus Supplement or other

Eaton Vance Senior Floating-Rate Trust

7

Prospectus dated [_____], 2015

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

offering materials, on a firm commitment basis. Agents, dealers and underwriters may be customers of, engage in transactions with, or perform services for the Trust in the ordinary course of business.

If any underwriters or agents are used in the sale of Common Shares in respect of which this Prospectus is delivered, the Trust will enter into an underwriting agreement or other agreement with them at the time of sale to them, and the Trust will set forth in the Prospectus Supplement relating to such Offering their names and the terms of the Trust's agreement with them.

If a dealer is utilized in the sale of Common Shares in respect of which this Prospectus is delivered, the Trust will sell such Common Shares to the dealer, as principal. The dealer may then resell such Common Shares to the public at varying prices to be determined by such dealer at the time of resale.

The Trust may engage in at-the-market offerings to or through a market maker or into an existing trading market, on an exchange or otherwise, in accordance with Rule 415(a)(4) under the 1933 Act. An at-the-market offering may be through an underwriter or underwriters acting as principal or agent for the Trust.

Agents, underwriters and dealers may be entitled under agreements which they may enter into with the Trust to indemnification by the Trust against certain civil liabilities, including liabilities under the 1933 Act, and may be customers of, engage in transactions with or perform services for the Trust in the ordinary course of business.

In order to facilitate the Offering of Common Shares, any underwriters may engage in transactions that stabilize, maintain or otherwise affect the price of Common Shares or any other Common Shares the prices of which may be used to determine payments on the Common Shares. Specifically, any underwriters may over-allot in connection with the Offering, creating a short position for their own accounts. In addition, to cover over-allotments or to stabilize the price of Common Shares or of any such other Common Shares, the underwriters may bid for, and purchase, Common Shares or any such other Common Shares in the open market. Finally, in any Offering of Common Shares through a syndicate of underwriters, the underwriting syndicate may reclaim selling concessions allowed to an underwriter or a dealer for distributing Common Shares in the Offering if the syndicate repurchases previously distributed Common Shares in transactions to cover syndicate short positions, in stabilization transactions or otherwise. Any of these activities may stabilize or maintain the market price of Common Shares above independent market levels. Any such underwriters are not required to engage in these activities and may end any of these activities at any time.

The Trust may enter into derivative transactions with third parties, or sell Common Shares not covered by this Prospectus to third parties in privately negotiated transactions. If the applicable Prospectus Supplement indicates, in connection with those derivatives, the third parties may sell Common Shares covered by this Prospectus and the applicable Prospectus Supplement or other offering materials, including in short sale transactions. If so, the third parties may use Common Shares pledged by the Trust or borrowed from the Trust or others to settle those sales or to close out any related open borrowings of securities, and may use Common Shares received from the Trust in settlement of those derivatives to close out any related open borrowings of securities. The third parties in such sale transactions will be underwriters and, if not identified in this Prospectus, will be identified in the applicable Prospectus Supplement or other offering materials (or a post-effective amendment).

The Trust or one of the Trust's affiliates may loan or pledge Common Shares to a financial institution or other third party that in turn may sell Common Shares using this Prospectus. Such financial institution or third party may transfer its short position to investors in Common Shares or in connection with a simultaneous Offering of other Common Shares offered by this Prospectus or otherwise.

The maximum amount of compensation to be received by any member of the Financial Industry Regulatory Authority, Inc. will not exceed 8% of the initial gross proceeds from the sale of any security being sold with respect to each particular Offering of Common Shares made under a single Prospectus Supplement.

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

Any underwriter, agent or dealer utilized in the initial Offering of Common Shares will not confirm sales to accounts over which it exercises discretionary authority without the prior specific written approval of its customer.

DISTRIBUTIONS

The Trust intends to make monthly distributions of net investment income to Common Shareholders, after payment of any dividends on any outstanding APS. The amount of each monthly distribution will vary depending on a number of factors, including dividends payable on the Trust's preferred shares or other costs of financial leverage. As portfolio and market conditions change, the rate of dividends on the Common Shares and the Trust's dividend policy could change. Over time, the Trust will distribute all of its net investment income (after it pays accrued dividends on any outstanding preferred shares) or other costs of

Eaton Vance Senior Floating-Rate Trust

8

Prospectus dated [____], 2015

financial leverage. 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.

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 rates.

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.

Common Shareholders may elect automatically to reinvest some or all of their distributions in additional Common Shares under the Trust's dividend reinvestment plan. See [Distributions](#) and [Dividend reinvestment plan](#).

DIVIDEND REINVESTMENT PLAN

The Trust has established a dividend reinvestment plan (the [Plan](#)). Under the Plan, a Common Shareholder may elect to have all dividend and capital gain distributions automatically reinvested in additional Common Shares either purchased in the open market, or newly issued by the Trust if the Common Shares are trading at or above their net asset value. Common Shareholders may elect to participate in the Plan by completing the dividend reinvestment plan application form. Common Shareholders who do not elect to participate in the Plan will receive all distributions in cash paid by check mailed directly to them by American Stock Transfer & Trust Company, LLC, as dividend paying agent. Common Shareholders who intend to hold their Common Shares through a broker or nominee should contact such broker or nominee to determine whether or how they may participate in the Plan. See [Dividend reinvestment plan](#).

CLOSED-END STRUCTURE

Closed-end funds differ from open-end management investment companies (commonly referred to as mutual funds) in that closed-end funds generally list their shares for trading on a securities exchange and do not redeem their shares at the option of the shareholder. By comparison, mutual funds issue securities redeemable at net asset value at the option of the shareholder and typically engage in a continuous offering of their shares. Mutual funds are subject to continuous asset in-flows and out-flows that can complicate portfolio management, whereas closed-end funds generally can stay more fully invested in securities consistent with the closed-end fund's investment objectives and policies. In addition, in comparison to open-end funds, closed-end funds have greater flexibility in the employment of financial leverage and in the ability to make certain types of investments, including investments in illiquid securities.

However, shares of closed-end funds frequently trade at a discount from their net asset value. Since inception, the market price of the Common Shares has fluctuated and at times traded below the Trust's NAV, and at times has traded above NAV. In recognition of the possibility that the Common Shares might trade at a discount to net asset value and that any such discount may not be in the interest of Common Shareholders, the Trust's Board of Trustees (the [Board](#)), in consultation with Eaton Vance, from time to time may review possible actions to reduce any such discount. The Board might consider open market repurchases or tender offers for Common Shares at net asset value. There can be no assurance that the Board will decide to undertake any of these actions or that, if undertaken, such actions would result in the Common Shares trading at a price equal to or close to net asset value per Common Share. The Board might also consider the conversion of the Trust to an open-end mutual fund. The Board believes, however, that the closed-end structure is desirable, given the Trust's investment objectives and policies. Investors should assume, therefore, that it is

highly unlikely that the Board would vote to convert the Trust to an open-end investment company. Investors should note that the Trust's preferred shares could make a conversion to open-end form more difficult because of the voting rights of preferred shareholders, the costs of redeeming preferred shares and other factors. See Description of capital structure.

SPECIAL RISK CONSIDERATIONS

Risk is inherent in all investing. Investing in any investment company security involves risk, including the risk that you may receive little or no return on your investment or even that you may lose part or all of your investment.

Eaton Vance Senior Floating-Rate Trust

9

Prospectus dated [____], 2015

Discount from or premium to NAV

The Offering will be conducted only when Common Shares of the Trust are trading at a price equal to or above the Trust's NAV per Common Share plus the per Common Share amount of commissions. As with any security, the market value of the Common Shares may increase or decrease from the amount initially paid for the Common Shares. The Trust's Common Shares have traded both at a premium and at a discount relative to net asset value. The shares of closed-end management investment companies frequently trade at a discount from their NAV. This is a risk separate and distinct from the risk that the Trust's NAV may decrease.

Secondary market for the Common Shares

The issuance of Common Shares through the Offering may have an adverse effect on the secondary market for the Common Shares. The increase in the amount of the Trust's outstanding Common Shares resulting from the Offering may put downward pressure on the market price for the Common Shares of the Trust. Common Shares will not be issued pursuant to the Offering at any time when Common Shares are trading at a price lower than a price equal to the Trust's NAV per Common Share plus the per Common Share amount of commissions.

The Trust also issues Common Shares of the Trust through its dividend reinvestment plan. See Dividend Reinvestment Plan. Common Shares may be issued under the plan at a discount to the market price for such Common Shares, which may put downward pressure on the market price for Common Shares of the Trust.

When the Common Shares are trading at a premium, the Trust may also issue Common Shares of the Trust that are sold through transactions effected on the NYSE. The increase in the amount of the Trust's outstanding Common Shares resulting from that offering may also put downward pressure on the market price for the Common Shares of the Trust.

The voting power of current shareholders will be diluted to the extent that such shareholders do not purchase shares in any future Common Share offerings or do not purchase sufficient shares to maintain their percentage interest. In addition, if the Adviser is unable to invest the proceeds of such offering as intended, the Trust's per share distribution may decrease (or may consist of return of capital) and the Trust may not participate in market advances to the same extent as if such proceeds were fully invested as planned.

Income risk

The income investors receive from the Trust is based primarily on the interest it earns from its investments, which can vary widely over the short and long-term. If prevailing market interest rates drop, investors' income from the Trust could drop as well. The Trust's income could also be affected adversely when prevailing short-term interest rates increase and the Trust is utilizing leverage, although this risk is mitigated by the Trust's investment in Senior Loans, which pay floating rates of interest.

Credit risk

Loans and other income investments are subject to the risk of non-payment of scheduled principal and interest. Changes in economic conditions or other circumstances may reduce the capacity of the party obligated to make principal and interest payments on such instruments and may lead to defaults. Such non-payments and defaults may reduce the value of Trust shares and income distributions. The value of a fixed income security also may decline because of concerns about the issuer's ability to make principal and interest payments. In addition, the credit ratings of loans or other income investments may be lowered if the financial condition of the party obligated to make payments with respect to such instruments changes. In the event of bankruptcy of the issuer of loans or other income investments, the Trust could experience delays or limitations with respect to its ability to realize the benefits of any collateral securing the instrument. In order to enforce its rights in the event of a default, bankruptcy or similar

situation, the Trust may be required to retain legal or similar counsel.

Prepayment risk

During periods of declining interest rates or for other purposes, Borrowers may exercise their option to prepay principal earlier than scheduled. For fixed-income securities, such payments often occur during periods of declining interest rates, forcing the Trust to reinvest in lower yielding securities. This is known as call or prepayment risk. Non-Investment Grade Bonds frequently have call features that allow the issuer to redeem the security at dates prior to its stated maturity at a specified price (typically greater than par) only if certain prescribed conditions are met (call protection). An issuer may redeem a Non-Investment Grade Bond if, for example, the issuer can refinance the debt at a lower cost due to declining interest rates or an improvement in the credit standing of the issuer. Senior Loans typically have no such call protection. For premium bonds (bonds acquired at prices that exceed their par or principal value) purchased by the Trust, prepayment risk may be enhanced.

Eaton Vance Senior Floating-Rate Trust

Issuer risk

The value of corporate income-producing securities may decline for a number of reasons which directly relate to the issuer, such as management performance, financial leverage and reduced demand for the issuer's goods and services.

Senior Loans risk

The risks associated with Senior Loans are similar to the risks of Non-Investment Grade Bonds (discussed below), although Senior Loans are typically senior and secured in contrast to Non-Investment Grade Bonds, which are often subordinated and unsecured. Senior Loans' higher standing has historically resulted in generally higher recoveries in the event of a corporate reorganization. In addition, because their interest rates are adjusted for changes in short-term interest rates, Senior Loans generally have less interest rate risk than Non-Investment Grade Bonds, which are typically fixed rate. The Trust's investments in Senior Loans are typically below investment grade and are considered speculative because of the credit risk of their issuers. Such companies are more likely to default on their payments of interest and principal owed to the Trust, and such defaults could reduce the Trust's net asset value and income distributions. An economic downturn generally leads to a higher non-payment rate, and a debt obligation may lose significant value before a default occurs. Moreover, any specific collateral used to secure a loan may decline in value or become illiquid, which would adversely affect the loan's value.

Economic and other events (whether real or perceived) can reduce the demand for certain Senior Loans or Senior Loans generally, which may reduce market prices and cause the Trust's net asset value per share to fall. The frequency and magnitude of such changes cannot be predicted. Fixed income markets have recently experienced a period of relatively high volatility. As a result of the Federal Reserve's action to end its quantitative easing stimulus program as well as the possibility that it may unwind the program and/or initiate a policy to raise short term interest rates, fixed income markets could experience continuing high volatility, which could negatively impact the Trust's performance.

Loans and other debt securities are also subject to the risk of price declines and to increases in prevailing interest rates, although floating-rate debt instruments are less exposed to this risk than fixed-rate debt instruments. Interest rate changes may also increase prepayments of debt obligations and require the Trust to invest assets at lower yields. No active trading market may exist for certain loans, which may impair the ability of the Trust to realize full value in the event of the need to liquidate such assets. Adverse market conditions may impair the liquidity of some actively traded loans.

Non-Investment Grade Bonds risk

The Trust's investments in Non-Investment Grade Bonds, commonly referred to as junk bonds, are predominantly speculative because of the credit risk of their issuers. While offering a greater potential opportunity for capital appreciation and higher yields, Non-Investment Grade Bonds typically entail greater potential price volatility and may be less liquid than higher-rated securities. Issuers of Non-Investment Grade Bonds are more likely to default on their payments of interest and principal owed to the Trust, and such defaults will reduce the Trust's net asset value and income distributions. The prices of these lower rated obligations are more sensitive to negative developments than higher rated securities. Adverse business conditions, such as a decline in the issuer's revenues or an economic downturn, generally lead to a higher non-payment rate. In addition, a security may lose significant value before a default occurs as the market adjusts to expected higher non-payment rates.

Derivatives risk

The use of derivatives can lead to losses because of adverse movements in the price or value of the asset, index, rate or instrument underlying a derivative, due to failure of a counterparty or due to tax or regulatory constraints. Derivatives may create investment leverage in the Trust, which magnifies the Trust's exposure to the underlying investment. Derivative risks may be more significant when they are used to enhance return or as a substitute for a position or

security, rather than solely to hedge the risk of a position or security held by the Trust. Derivatives for hedging purposes may not reduce risk if they are not sufficiently correlated to the position being hedged. A decision as to whether, when and how to use derivatives involves the exercise of specialized skill and judgment, and even a well-conceived transaction may be unsuccessful to some degree because of market behavior or unexpected events. Changes in the value of the derivative may not correlate perfectly with the underlying asset, rate or index, and the Trust could lose more than the principal amount invested in derivatives. Derivative instruments traded in over-the-counter markets may be difficult to value, may be illiquid, and may be subject to wide swings in valuation caused by changes in the value of the underlying instrument. The loss on derivative transactions may substantially exceed the initial investment.

Eaton Vance Senior Floating-Rate Trust

11

Prospectus dated [____], 2015

Leverage risk

As discussed above, the Trust currently uses leverage created by issuing APS and borrowings. On January 26, 2004, the Trust issued 3,940 Series A APS, 3,940 Series B APS, 3,940 Series C APS and 3,940 Series D APS, with a liquidation preference per share of \$25,000 plus accumulated but unpaid dividends. As of December 31, 2012, 2,627 Series A APS, 2,627 Series B APS, 2,627 Series C APS and 2,627 Series D APS had been redeemed. In addition, the Trust has entered into an Agreement with a bank to borrow up to a limit of \$220 million pursuant to a 364-day revolving line of credit. The Trust is required to maintain certain net asset levels during the term of the Agreement.

As of April 30, 2015, the Trust had \$ 200 million in outstanding borrowings, at an interest rate of 0.95 %, in addition to outstanding APS.

The Adviser anticipates that the use of leverage (from the issuance of APS and borrowings) may result in higher income to Common Shareholders over time. Leverage creates risks for Common Shareholders, including the likelihood of greater volatility of NAV and market price of the Common Shares and the risk that fluctuations in dividend rates on APS and costs of borrowings may affect the return to Common Shareholders. To the extent the income derived from investments purchased with funds received from leverage exceeds the cost of leverage, the Trust's distributions will be greater than if leverage had not been used. Conversely, if the income from the investments purchased with such funds is not sufficient to cover the cost of leverage, the amount available for distribution to Common Shareholders will be less than if leverage had not been used. In the latter case, Eaton Vance, in its best judgment, may nevertheless determine to maintain the Trust's leveraged position if it deems such action to be appropriate. While the Trust has preferred shares outstanding, an increase in short-term rates would also result in an increased cost of leverage, which would adversely affect the Trust's income available for distribution. There can be no assurance that a leveraging strategy will be successful.

In addition, under current federal income tax law, the Trust is required to allocate a portion of any net realized capital gains or other taxable income to APS holders. The terms of the Trust's APS require the Trust to pay to any APS holders additional dividends intended to compensate the APS holders for taxes payable on any capital gains or other taxable income allocated to APS. Any such additional dividends will reduce the amount available for distribution to Common Shareholders. As discussed under Management of the Trust, the fee paid to Eaton Vance is calculated on the basis of the Trust's gross assets, including proceeds from the issuance of APS and borrowings, so the fees will be higher when leverage is utilized. In this regard, holders of APS do not bear the investment advisory fee. Rather, Common Shareholders bear the portion of the investment advisory fee attributable to the assets purchased with the proceeds, which means that Common Shareholders effectively bear the entire advisory fee.

The APS have been rated AAA by Fitch and Aa3 by Moody's. The Trust currently intends to seek to maintain this rating or an equivalent credit rating from other Rating Agencies on the APS or any preferred shares it issues. The Trust is subject to investment restrictions of the Rating Agencies as a result. Any bank lender in connection with a credit facility or commercial paper program may also impose specific restrictions as a condition to borrowing. Such restrictions imposed by a Rating Agency or lender may include asset coverage or portfolio composition requirements that are more stringent than those imposed on the Trust by the 1940 Act. These covenants or guidelines do not currently and are not expected to impede Eaton Vance in managing the Trust's portfolio in accordance with its investment objectives and policies and it is not anticipated that they will so impede Eaton Vance in the future. See Description of Capital Structure Preferred shares.

Financial leverage may also be achieved through the purchase of certain derivative instruments. The Trust's use of derivative instruments exposes the Trust to special risks. See Investment objectives, policies and risks Additional investment practices and Investment Objectives, Policies, and Risks Additional Risk Considerations.

Interest rate risk

When interest rates decline, the value of a portfolio invested in Senior Loans may rise. Conversely, when interest rates rise, the value of a portfolio invested in Senior Loans may decline. Interest rates are at historical lows and, as a result, it is likely that they will rise. Because floating or variable rates on Senior Loans only reset periodically, changes in prevailing interest rates may cause some fluctuations in the Trust's net asset value. Similarly, a sudden and significant increase in market interest rates may cause a decline in the Trust's net asset value. A material decline in the Trust's net asset value may impair the Trust's ability to maintain required levels of asset coverage.

Foreign securities risk

Investments in foreign issuers could be affected by factors not present in the United States, including expropriation, armed conflict, confiscatory taxation, lack of uniform accounting and auditing standards, less publicly available financial and other information, and potential difficulties in enforcing contractual obligations and the imposition of economic sanctions. Because

Eaton Vance Senior Floating-Rate Trust

foreign issuers may not be subject to uniform accounting, auditing and financial reporting standards, practices and requirements and regulatory measures comparable to those in the United States, there may be less publicly available information about such foreign issuers. Settlements of securities transactions in foreign countries are subject to risk of loss, may be delayed and are generally less frequent than in the United States, which could affect the liquidity of the Trust's assets.

Liquidity risk

The Trust may invest without limitation in Senior Loans and other securities for which there is no readily available trading market or which are otherwise illiquid. The Trust may not be able to dispose readily of such securities at prices that approximate those at which the Trust could sell such securities if they were more widely traded and, as a result of such illiquidity, the Trust may have to sell other investments or engage in borrowing transactions if necessary to raise cash to meet its obligations. In addition, the limited liquidity could affect the market price of the securities, thereby adversely affecting the Trust's net asset value and ability to make dividend distributions.

Some Senior Loans are not readily marketable and may be subject to contractual restrictions that must be satisfied before a loan can be bought or sold. Senior Loans generally are not listed on any national securities exchange or automated quotation system and no active trading market may exist for some of the Senior Loans in which the Trust will invest. Where a secondary market exists, such market for some Senior Loans may be subject to irregular activity, wide bid/ask spreads and extended trade settlement periods. Senior Loans that are illiquid may impair the Trust's ability to realize the full value of its assets in the event of a voluntary or involuntary liquidation of such assets and thus may cause a decline in the Trust's net asset value. The Trust has no limitation on the amount of its assets which may be invested in securities which are not readily marketable or are subject to restrictions on resale.

Reinvestment risk

Income from the Trust's portfolio will decline if and when the Trust invests the proceeds from matured, traded or called debt obligations into lower yielding instruments.

Inflation risk

Inflation risk is the risk that the value of assets or income from investment will be worth less in the future as inflation decreases the value of money. As inflation increases, the real value of the Common Shares and distributions thereon can decline. In addition, during any periods of rising inflation, dividend rates of preferred shares would likely increase, which would tend to further reduce returns to Common Shareholders. This risk is mitigated to some degree by the Trust's investments in Senior Loans.

Management risk

The Trust is subject to management risk because it is an actively managed portfolio. Eaton Vance and the individual portfolio managers will apply investment techniques and risk analyses in making investment decisions for the Trust, but there can be no guarantee that these will produce the desired results.

Regulatory risk

To the extent that legislation or state or federal regulators that regulate certain financial institutions impose additional requirements or restrictions with respect to the ability of such institutions to make loans, particularly in connection with highly leveraged transactions, the availability of Senior Loans for investment may be adversely affected. Further, such legislation or regulation could depress the market value of Senior Loans.

Market disruption

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

Instability in the Middle East, the wars in Afghanistan, Iraq and Libya, geopolitical tensions elsewhere and terrorist attacks in the U.S. and around the world have resulted in market volatility and may have long-term effects on the U.S. and worldwide financial markets and may cause further economic uncertainties in the U.S. and worldwide. The Trust cannot predict the effects of significant future events on the global economy and securities markets. A similar disruption of the financial markets could impact interest rates, auctions, secondary trading, ratings, credit risk, inflation and other factors relating to the Common Shares. In particular, Non-Investment Grade Bonds and Senior Loans tend to be more volatile than higher rated fixed income securities so that these events and any actions resulting from them may have a greater impact on the prices and volatility on Non-Investment Grade Bonds and Senior Loans than on higher rated fixed income securities.

Eaton Vance Senior Floating-Rate Trust

13

Prospectus dated [____], 2015

Edgar Filing: EATON VANCE SENIOR FLOATING RATE TRUST - Form N-2

Anti-takeover provisions

The Trust's Agreement and Declaration of Trust includes provisions that could have the effect of limiting the ability of other persons or entities to acquire control of the Trust or to change the composition of its Board. See Certain provisions of the Declaration of Trust Anti-takeover provisions in the Declaration of Trust.

Summary of Trust expenses

The purpose of the table below is to help you understand all fees and expenses that you, as a holder of Common Shares (Common Shareholder), would bear directly or indirectly. The table reflects the issuance of preferred shares in an amount equal to 14.6 % of the Trust's total assets and borrowings in an amount equal to 23.2 % of the Trust's total assets (including the proceeds of all such leverage) and shows Trust expenses as a percentage of net assets attributable to Common Shares⁽¹⁾ for the six months ended April 30, 2015 ..

Common Shareholder transaction expenses

Sales load paid by you (as a percentage of offering price)	--%(1)
Offering expenses (as a percentage of offering price)	None(2)
Dividend reinvestment plan fees	None(3)

Percentage of net assets
attributable to common shares
(assuming the issuance of
preferred
shares and/or borrowings) (4)

Annual expenses

Investment advisory fee	1.21% (5)
Interest payments on borrowed funds	0.42% (6)
Other expenses	0.19%
Total annual expenses	1.81%
Dividends on preferred shares	0.02% (6)
Total annual Trust operating expenses and dividends on preferred shares	1.83%

EXAMPLE

The following example illustrates the expenses that Common Shareholders would pay on a \$1,000 investment in Common Shares, assuming (i) total annual expenses of 1.83 % of net assets attributable to Common Shares in years 1 through 10 ; (ii) a 5% annual return ; and (iii) all distributions are reinvested at NAV :

1 Year	3 Years	5 Years	10 Years
\$19	\$58	\$99	\$215

The above table and example and the assumption in the example of a 5% annual return are required by regulations of the SEC that are applicable to all investment companies; the assumed 5% annual return is not a prediction of, and does not represent, the projected or actual performance of the Trust's Common Shares. For more complete descriptions of certain of the Trust's costs and expenses, see Management of the Trust. In addition, while the example assumes reinvestment of all dividends and distributions at NAV, participants in the Trust's dividend reinvestment plan may receive Common Shares purchased or issued at a price or value different from NAV. See Distributions and Dividend Reinvestment Plan. The example does not include sales load or estimated offering costs, which would cause the expenses shown in the example to increase.

The example should not be considered a representation of past or future expenses, and the Trust's actual expenses may be greater or less than those shown. Moreover, the Trust's actual rate of return may be greater or less than the

hypothetical 5% return shown in the example.

(1)

If Common Shares are sold to or through underwriters, the Prospectus Supplement will set forth any applicable sales load.

(2)

The Adviser will pay the expenses of the Offering (other than the applicable commissions); therefore, Offering expenses are not included in the Summary of Trust Expenses. Offering expenses generally include, but are not limited to, the preparation, review and filing with the SEC of the Trust's registration statement (including this Prospectus and the Statement of Additional Information), the preparation, review and filing of any associated marketing or similar materials, costs associated with the printing, mailing or other distribution of this Prospectus, the Statement of Additional Information and/or marketing materials, associated filing fees, NYSE listing fees, and legal and auditing fees associated with the Offering.

Eaton Vance Senior Floating-Rate Trust

14

Prospectus dated [____], 2015

(3)

You will be charged a \$5.00 service charge and pay brokerage charges if you direct the plan agent to sell your Common Shares held in a dividend reinvestment account.

(4)

Stated as percentage of average net assets attributed to Common Shares for the six months ended April 30, 2015 ..

(5)

The advisory fee paid by the Trust to the Adviser is based on the average daily gross assets of the Trust, including all assets attributable to any form of investment leverage that the Trust may utilize. Accordingly, if the Trust were to increase investment leverage in the future, the advisory fee will increase as a percentage of net assets.

(6)

As of April 30, 2015 the outstanding borrowings and APS represented approximately 37. 0 % leverage.

Financial highlights and investment performance

FINANCIAL HIGHLIGHTS

This table details the financial performance of the Common Shares, including total return information showing how much an investment in the Trust has increased or decreased each period.

This information (except for the six months ended April 30, 2015) has been audited by Deloitte & Touche LLP, the Trust's independent registered public accounting firm. The report of Deloitte & Touche LLP along with the financial statements of the Trust, including the financial highlights for each of the periods indicated therein, have been incorporated by reference into the SAI and are available upon request.

Selected data for a common share outstanding during the periods stated.

Six Months	Year Ended October 31,
Ended	
April 30,	
2015	
(Unaudited) 2014 2013	