

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934
(Amendment No.)*

Stemline Therapeutics, Inc.
(Name of Issuer)

Common Stock, \$0.0001 par value
(Title of Class of Securities)

85858C107
(CUSIP Number)

December 31, 2019
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
 Rule 13d-1(c)
 Rule 13d-1(d)

* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter disclosures provided in a prior cover page.

The information required on the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

1. NAMES OF REPORTING PERSONS

Eventide Asset Management, LLC

2. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP
(see instructions)

(a)

(b)

3. SEC USE ONLY

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

5. SOLE VOTING POWER

4,160,608

NUMBER OF
SHARES
BENEFICIALLY
OWNED BY EACH
REPORTING
PERSON WITH

6. SHARED VOTING POWER

0

7. SOLE DISPOSITIVE POWER

4,160,608

8. SHARED DISPOSITIVE POWER

0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

4,160,608

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES
(see instructions)

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

8.3%

12. TYPE OF REPORTING PERSON (see instructions)

IA

- (a) Name of Issuer
Stemline Therapeutics, Inc.
- (b) Address of Issuer's Principal Executive Offices
750 Lexington Avenue, Eleventh Floor, New York, NY 10022

Item 2.

- (a) Name of Person Filing
Eventide Asset Management, LLC
- (b) Address of the Principal Office or, if none, residence
One International Place, Suite 4210, Boston, MA 02110
- (c) Citizenship
Delaware
- (d) Title of Class of Securities
Common Stock, \$0.0001 par value
- (e) CUSIP Number
85858C107

Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
- (b) Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c) Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
- (d) Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).
- (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- (g) A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- (h) A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) Group, in accordance with §240.13d-1(b)(1)(ii)(J).

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

- (a) Amount beneficially owned: 4,160,608
- (b) Percent of class: 8.3%
- (c) Number of shares as to which the person has:
 - (i) Sole power to vote or to direct the vote: 4,160,608
 - (ii) Shared power to vote or to direct the vote: 0
 - (iii) Sole power to dispose or to direct the disposition: 4,160,608
 - (iv) Shared power to dispose or to direct the disposition: 0

. For computations regarding securities which represent a right to acquire an underlying security see §240.13d-3(d)(1).

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following .

Instruction. Dissolution of a group requires a response to this item.

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

Eventide Asset Management, LLC, a Delaware limited liability company located at One International Place, Suite 4210, Boston, MA 02110, is the beneficial owner of 4,160,608 Common Shares by virtue of being the investment adviser to registered investment companies ("Funds"). As of December 31, 2019, the Eventide Gilead Fund held 1,720,608 common shares, representing 3.4% of the issuer's outstanding common shares, and the Eventide Healthcare & Life Sciences Fund held 2,440,000 common shares, representing 4.9% of the issuer's outstanding common shares, which together represents approximately 8.3% of the issuer's outstanding common shares.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

N/A

Item 8. Identification and Classification of Members of the Group.

N/A

Item 9. Notice of Dissolution of Group.

N/A

Item 10. Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

nable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

2/4/2020

Date

/s/ Peter J. Luiso

Signature

Peter J. Luiso, Chief Compliance Officer and General Counsel

Name/Title