

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

SCHEDULE 14A

**Proxy Statement Pursuant to Section 14(a) of
the Securities Exchange Act of 1934 (Amendment No.)**

Filed by the Registrant

Filed by a Party other than the Registrant

Check the appropriate box:

- Preliminary Proxy Statement
- Confidential, for Use of the Commission Only (as permitted by Rule 14a-6(e)(2))**
- Definitive Proxy Statement
- Definitive Additional Materials
- Soliciting Material under §240.14a-12

Stemline Therapeutics, Inc.

(Name of Registrant as Specified In Its Charter)

(Name of Person(s) Filing Proxy Statement, if other than the Registrant)

Payment of Filing Fee (Check the appropriate box):

- No fee required.
- Fee computed on table below per Exchange Act Rules 14a-6(i)(1) and 0-11.

(1) Title of each class of securities to which transaction applies:

(2) Aggregate number of securities to which transaction applies:

(3) Per unit price or other underlying value of transaction computed pursuant to Exchange Act Rule 0-11 (set forth the amount on which the filing fee is calculated and state how it was determined):

(4) Proposed maximum aggregate value of transaction:

(5) Total fee paid:

- Fee paid previously with preliminary materials.
- Check box if any part of the fee is offset as provided by Exchange Act Rule 0-11(a)(2) and identify the filing for which the offsetting fee was paid previously. Identify the previous filing by registration statement number, or the Form or Schedule and the date of its filing.

(1) Amount Previously Paid:

(2) Form, Schedule or Registration Statement No.:

(3) Filing Party:

(4) Date Filed:



IMPORTANT ANNUAL MEETING INFORMATION

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DESIGNATION (IF ANY)
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Vote by Internet

- Go to www.envisionreports.com/STML
- Or scan the QR code with your smartphone
- Follow the steps outlined on the secure website

Stockholder Meeting Notice

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Important Notice Regarding the Availability of Proxy Materials for the 2018 Annual Meeting of Stockholders of Stemline Therapeutics, Inc. to be Held on Thursday, June 21, 2018

Under Securities and Exchange Commission rules, you are receiving this notice that the proxy materials for the annual stockholders' meeting are available on the Internet. Follow the instructions below to view the materials and vote online or request a copy. The items to be voted on and location of the annual meeting are on the reverse side. Your vote is important!

This communication presents only an overview of the more complete proxy materials that are available to you on the Internet. We encourage you to access and review all of the important information contained in the proxy materials before voting. The proxy statement and annual report to stockholders are available at:

www.envisionreports.com/STML



Easy Online Access — A Convenient Way to View Proxy Materials and Vote

When you go online to view materials, you can also vote your shares.

Step 1: Go to www.envisionreports.com/STML to view the materials.

Step 2: Click on **Cast Your Vote** or **Request Materials**.

Step 3: Follow the instructions on the screen to log in.

Step 4: Make your selection as instructed on each screen to select delivery preferences and vote.

When you go online, you can also help the environment by consenting to receive electronic delivery of future materials.



Obtaining a Copy of the Proxy Materials – If you want to receive a copy of these documents, you must request one. There is no charge to you for requesting a copy. Please make your request for a copy as instructed on the reverse side on or before 10 days before the meeting to facilitate timely delivery.



2 N O T

C O Y



Stockholder Meeting Notice

The 2018 Annual Stockholders Meeting of Stemline Therapeutics, Inc. will be held on Thursday, June 21, 2018, at the offices of our legal counsel, Alston & Bird LLP, located at 90 Park Avenue (between 39th and 40th streets), New York, New York 10016, at 10:00 a.m. ET.

Proposals to be voted on at the meeting are listed below along with the Board of Directors' recommendations.

The Board of Directors recommends a vote **FOR** all nominees, **FOR** Proposal 2 and 3:

1. Election of two Class III directors, two Class II directors, and one Class I director, each to serve until their successors are duly elected and qualified
2. Ratify the appointment of Ernst & Young LLP as our independent registered public accounting firm for the year ending December 31, 2018
3. Approval of an amendment to our 2016 Equity Incentive Plan to increase the number of authorized shares issuable thereunder by 2,900,000 shares

PLEASE NOTE – YOU CANNOT VOTE BY RETURNING THIS NOTICE. To vote your shares you must vote online or request a paper copy of the proxy materials to receive a proxy card. If you wish to attend and vote at the meeting, please bring this notice with you.

Directions to the 2018 Annual Stockholders Meeting of Stemline Therapeutics, Inc.

Directions to the 2018 Annual Stockholders Meeting of Stemline Therapeutics, Inc. are available in the proxy statement, which can be viewed at www.envisionreports.com/STML.



Here's how to order a copy of the proxy materials and select a future delivery preference:

Paper copies: Current and future paper delivery requests can be submitted via the telephone, Internet or email options below.

Email copies: Current and future email delivery requests must be submitted via the Internet following the instructions below. If you request an email copy of current materials you will receive an email with a link to the materials.

PLEASE NOTE: You must use the number in the shaded bar on the reverse side when requesting a set of proxy materials.

- **Internet** – Go to www.envisionreports.com/STML. Click Cast Your Vote or Request Materials. Follow the instructions to log in and order a copy of the current meeting materials and submit your preference for email or paper delivery of future meeting materials.
- **Telephone** – Call us free of charge at 1-866-641-4276 and follow the instructions to log in and order a paper copy of the materials by mail for the current meeting. You can also submit a preference to receive a paper copy for future meetings.
- **Email** – Send email to investorvote@computershare.com with "Proxy Materials Stemline Therapeutics, Inc." in the subject line. Include in the message your full name and address, plus the number located in the shaded bar on the reverse, and state in the email that you want a paper copy of current meeting materials. You can also state your preference to receive a paper copy for future meetings.

To facilitate timely delivery, all requests for a paper copy of the proxy materials must be received by 10 days before the meeting.