

**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: _____
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- 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.
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PROXY STATEMENT SUPPLEMENT
2019 ANNUAL MEETING OF STOCKHOLDERS

To Be Held Tuesday, June 25, 2019 at 10:00 a.m. ET

EXPLANATORY NOTE

On April 30, 2019, Stemline Therapeutics, Inc. (the “Company”) filed its Definitive Proxy Statement on Schedule 14A (the “Proxy Statement”) and the related Proxy Card (the “Proxy Card”) for the Company’s 2019 Annual Meeting of Shareholders with the Securities and Exchange Commission (“SEC”). The Proxy Statement was filed in connection with the Company’s 2019 Annual Meeting of Shareholders to be held on Tuesday, June 25, 2019, at 10:00 a.m. ET at the offices of the Company’s outside legal counsel, Alston & Bird LLP, located at 90 Park Avenue, New York, New York 10016 (the “Annual Meeting”). This supplement to the Proxy Statement is being filed to add additional information regarding the effect of broker non-votes. Other than the revised language below, no other changes have been made to the Proxy Statement or the Proxy Card and they continue to be in full force and effect as originally filed and the Board of Directors continues to seek the vote of Company stockholders to be voted on at the Annual Meeting as recommended in the original filing.

For ease of reference, the revised and/or added language is underlined in the answers below.

Except as described in this supplement, the information provided in the Proxy Statement continues to apply. To the extent that information in this supplement differs from or updates information contained in the Proxy Statement, the information in this supplement is more current. The Proxy Statement contains additional information. This supplement should be read in conjunction with the Proxy Statement.

The answer under the heading “Questions and Answers — How are votes counted?” on page 3 of the Proxy Statement is amended to add additional explanatory language as follows:

Q: *How are votes counted?*

- A. Before the Annual Meeting, our Board of Directors will appoint one or more inspectors of election for the meeting. The inspector(s) will determine the number of shares represented at the meeting, the existence of a quorum and the validity and effect of proxies. The inspector(s) will also receive, count, and tabulate ballots and votes and determine the results of the voting on each matter that comes before the Annual Meeting.

Abstentions and votes withheld, and shares represented by proxies reflecting abstentions or votes withheld, will be treated as present for purposes of determining the existence of a quorum at the Annual Meeting. They will not be considered as votes “for” or “against” any matter for which the stockholder has indicated their intention to abstain or withhold their vote. Broker non-votes occur when shares are held indirectly through a broker, bank or other intermediary on behalf of a beneficial owner (referred to as held in “street name”) and the broker submits a proxy but does not vote for a matter because the broker has not received voting instructions from the beneficial owner and (i) the broker does not have discretionary voting authority on the matter or (ii) the broker chooses not to vote on a matter for which it has discretionary voting authority. Pursuant to the New York Stock Exchange (the “NYSE”), which govern voting matters at the Annual Meeting, brokers are permitted to exercise discretionary voting authority only on “routine” matters when voting instructions have not been timely received from a beneficial owner.

The following matters up for vote at the Annual Meeting are considered to be “routine”: (i) the ratification of Ernst & Young LLP as our independent registered public accounting firm for the year ending December 31, 2019 and (ii) the approval of an amendment to our Certificate of Incorporation to increase our authorized common stock by 30,000,000 shares. Brokers that hold your shares, therefore, have discretionary authority to vote your shares on those matters unless they receive instructions from you on those matters.

The answer under the heading “Questions and Answers — What vote is required to approve the amendment to our Certificate of Incorporation to increase our authorized share capital by 30,000,000 shares of common stock?” on page 4 of the Proxy Statement is amended to add additional explanatory language as follows:

Q: *What vote is required to approve the amendment to our Certificate of Incorporation to increase our authorized share capital by 30,000,000 shares of common stock?*

- A. The affirmative vote of a majority of our common stock outstanding is required to approve the amendment to our Certificate of Incorporation to increase our authorized share capital by 30,000,000 shares of common stock. The effect of an abstention or a broker non-vote, if any, is a vote against the proposal, because this is considered a “routine” matter (see “How are Votes Counted?” above).
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STEMLINE THERAPEUTICS, INC.

**750 Lexington Avenue, Eleventh Floor
New York, New York 10022**

VOTING MATTERS

This Supplement does not change the proposals to be acted upon at the Annual Meeting, which are described in the Proxy Statement. As a stockholder, your vote is very important and the Board encourages you to exercise your right to vote whether or not you plan to attend the Annual Meeting. If you have already voted by Internet, telephone or by mail, you do not need to take any action unless you wish to change your vote. Proxy voting instructions already returned by stockholders (via Internet, telephone or mail) will remain valid and will be voted at the Annual Meeting unless revoked.

By order of the Board of Directors,

A handwritten signature in black ink, appearing to read 'KH', is written over a horizontal line.

Kenneth Hoberman
Corporate Secretary

June 11, 2019
New York, New York
