

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

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 Pursuant to §240.14a-12

SKYLINE MEDICAL 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:

On August 15, 2016, Skyline Medical Inc. issued the following press release:

Leading Proxy Advisory Firm ISS Recommends Stockholders Vote FOR Skyline Medical Management Proposals

MINNEAPOLIS (August 15, 2016) – Skyline Medical Inc. (NASDAQ: SKLN) (“Skyline” or “the Company”), developer of the innovative STREAMWAY® waste fluid disposal system for medical applications, reports that Institutional Shareholder Services, Inc. (“ISS”) recommends that stockholders vote FOR management proposals to 1) increase the number of authorized shares of common stock to 200,000,000 from 100,000,000 and 2) effect a reverse stock split of its common at a ratio of between one-for-two and one-for-25 and a proportionate decrease in the number of authorized shares of common stock at the company’s Special Meeting of Stockholders to be held on September 15th. In its August 12, 2016 published report, ISS stated*:

- The proposed increase in authorized shares of common stock is reasonable and there is a specific and severe risk to shareholders of non-approval.
- The reverse stock split may enable the company to maintain listing of its common stock on the NASDAQ Capital Market and the number of authorized common shares will be proportionately reduced following the reverse split.

In addition, ISS recommends that stockholders vote FOR the recommendation to adjourn the meeting, if necessary, to permit further solicitation of proxies if there are insufficient votes at the time of the meeting to approve items 1 and 2.

ISS explained its recommendations further. With respect to Proposal “Item 1, Increase Authorized Common Stock”, ISS stated that “The proposed increase in authorized common shares is reasonable and there is a specific and severe risk to shareholders of non-approval, as evidenced by the conclusion of the company’s independent auditor that there is substantial doubt regarding the company’s ability to continue as a going concern. Therefore support for this proposal is warranted.”*

With respect to “Item 2, Approve Reverse Stock Split” ISS stated that “The company states that the number of authorized shares common shares will be proportionately reduced following the reverse split. In addition, the reverse split is necessary to avoid delisting of the company’s stock. Therefore, shareholder support for this proposal is warranted.”*

**Permission neither sought nor obtained from ISS.*

“We are pleased that ISS, a highly regarded, independent, leading proxy advisory firm understands the measures we must take to put Skyline on a firmer financial footing and has recommended that stockholders vote FOR our proposals,” said Dr. Carl Schwartz, chairman and interim chief executive officer of Skyline Medical. “With an increase in authorized common shares and a reverse stock split, we believe that the Company will be on firmer financial footing to achieve the milestones we anticipate, and to execute on the plan for the ongoing benefit of all our stakeholders.”

Additional Information

For Proposals 1, 2 and 3, you may vote “For” or “Against” or abstain from voting. The procedures for voting are as follows:

Stockholder of Record: Shares Registered in Your Name

If you are a stockholder of record, you may vote in person at the Special Meeting, vote by proxy using the enclosed proxy card, vote by proxy via facsimile or by email. Whether or not you plan to attend the meeting, we urge you to vote by proxy to ensure your vote is counted. You may still attend the meeting and vote in person even if you have already voted by proxy.

- To vote using the proxy card, simply complete, sign and date the enclosed proxy card and return it promptly in the envelope provided. If you return your signed proxy card to us before the Special Meeting, we will vote your shares as you direct.
- To vote by email, complete, sign and date the enclosed proxy card and scan and email it to rsingleton@corporatestock.com. Your vote must be received by 4:00 PM Eastern Time (3:00 PM Central Time) on September 15, 2016, to be counted.
- To vote by internet, please follow the instructions on your proxy card.
- To vote by facsimile, complete, sign and date the enclosed proxy card and fax it to (303) 282-5800. Your vote must be received by 4:00 PM Eastern Time (3:00 PM Central Time) on September 15, 2016, to be counted.
- To vote in person, come to the Special Meeting, and we will give you a ballot when you arrive. If you would like directions to the offices of the company’s counsel, Maslon LLP, please call (651) 389-4800.

Beneficial Owner: Shares Registered in the Name of Broker or Bank

If you are a beneficial owner of shares registered in the name of your broker, bank, or other agent, you should receive a proxy card and voting instructions with these proxy materials from that organization rather than from us. Simply complete and mail the proxy card to ensure that your vote is submitted to your broker or bank. Alternatively, you may vote over the Internet as instructed by your broker or bank. To vote in person at the Special Meeting, you must obtain a valid legal proxy from your broker, bank, or other agent. Follow the instructions from your broker or bank included with these proxy materials, or contact your broker or bank to request a proxy form.

About the STREAMWAY System

Skyline's revolutionary, FDA-cleared STREAMWAY system is the first true direct-to-drain fluid disposal system designed specifically for medical applications, such as radiology, endoscopy, urology and cystoscopy procedures. It connects directly to a facility's plumbing system to automate the collection, measurement and disposal of waste fluids. As of June 30, 2016, Skyline Medical customers have installed 94 STREAMWAY systems in 50 facilities across 19 states.

The STREAMWAY minimizes human intervention for better safety and improves compliance with Occupational Safety and Health Administration (OSHA) and other regulatory agency safety guidelines. It also provides unlimited capacity for increased efficiency in the operating room, which leads to greater profitability. Furthermore, the STREAMWAY eliminates canisters to reduce overhead costs and provides greater environmental stewardship by helping to eliminate the approximately 50 million potentially disease-infected canisters that go into landfills annually in the U.S. For a demonstration please visit www.skylinemedical.com or call 855-785-8855.

About Skyline Medical

Skyline Medical produces a fully automated, patented, FDA-cleared waste fluid disposal system that virtually eliminates staff exposure to blood, irrigation fluid and other potentially infectious fluids found in the healthcare environment. Antiquated manual fluid handling methods that require hand carrying and emptying filled fluid canisters present an exposure risk and potential liability. Skyline Medical's STREAMWAY System fully automates the collection, measurement and disposal of waste fluids and is designed to: 1) reduce overhead costs to hospitals and surgical centers; 2) improve compliance with OSHA and other regulatory agency safety guidelines; 3) improve efficiency in the operating room, and radiology and endoscopy departments, thereby leading to greater profitability; and 4) provide greater environmental stewardship by helping to eliminate the approximately 50 million potentially disease-infected canisters that go into landfills each year in the U.S. For additional information, please visit www.skylinemedical.com.

Forward-looking Statements

Certain of the matters discussed in this announcement contain forward-looking statements that involve material risks to and uncertainties in the Company's business that may cause actual results to differ materially from those anticipated by the statements made herein. Such risks and uncertainties include, among other things, current negative operating cash flows and a need for additional funding to finance our operating plan; the terms of any further financing, which may be highly dilutive and may include onerous terms; unexpected costs and operating deficits, and lower than expected sales and revenues; uncertain willingness and ability of customers to adopt new technologies and other factors that may affect further market acceptance; if our product is not accepted by our potential customers, it is unlikely that we will ever become profitable, adverse economic conditions; adverse results of any legal proceedings; the volatility of our operating results and financial condition; inability to attract or retain qualified senior management personnel, including sales and marketing personnel; our ability to establish and maintain the proprietary nature of our technology through the patent process, as well as our ability to possibly license from others patents and patent applications necessary to develop products; the Company's ability to implement its long range business plan for various applications of its technology; the Company's ability to enter into agreements with any necessary marketing and/or distribution partners; the impact of competition, the obtaining and maintenance of any necessary regulatory clearances applicable to applications of the Company's technology; and management of growth and other risks and uncertainties that may be detailed from time to time in the Company's reports filed with the Securities and Exchange Commission, which are available for review at www.sec.gov. This is not a solicitation to buy or sell securities and does not purport to be an analysis of the Company's financial position. See the Company's most recent Annual Report on Form 10-K, and subsequent reports and other filings at www.sec.gov.

Contacts:

LHA

Kim Sutton Golodetz

kgolodetz@lhai.com

212-838-3777

or

Bruce Voss

bvoss@lhai.com

310-691-7100