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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
Washington, DC 20549

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**FORM S-8  
REGISTRATION STATEMENT**  
*UNDER  
THE SECURITIES ACT OF 1933*

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**SAFESTITCH MEDICAL, INC.**  
(Exact name of registrant as specified in its charter)

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**Delaware**  
(State or other jurisdiction of  
incorporation or organization)

**11-2962080**  
(IRS Employer  
Identification Number)

**4400 Biscayne Boulevard, Miami, Florida 33137**  
(Address of Principal Executive Offices)

**SafeStitch Medical, Inc. 2007 Incentive Compensation Plan, As Amended**  
(Full title of the plan)

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**Joshua B. Weingard, Esq.**  
**Chief Legal Officer**  
**SafeStitch Medical, Inc.**  
**4400 Biscayne Boulevard**  
**Miami, Florida 33137**  
(Name and address of agent for service)

**(305) 575-4602**  
(Telephone number, including area code, of agent for service)

**With a copy to:**

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer   
Non-accelerated filer  (Do not check if a smaller reporting company) **Smaller reporting company**

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**CALCULATION OF REGISTRATION FEE**

Title of securities to be registered	Amount to be registered (1)	Proposed maximum offering price per share (2)	Proposed maximum aggregate offering price (2)	Amount of registration fee
Common Stock, par value \$0.001 per share	3,000,000	\$0.45-\$0.55	\$1,495,300	\$203.96

- (1) Pursuant to Rule 416(c) of the Securities Act of 1933, as amended (the "Securities Act"), this registration statement shall also cover any additional shares of common stock, \$0.001 par value per share ("Common Stock"), of SafeStitch Medical, Inc. (the "Registrant") which become issuable under the SafeStitch Medical, Inc. 2007 Incentive Compensation Plan, as amended (the "Plan"), by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the receipt of consideration that results in an increase in the number of the Registrant's outstanding shares of Common Stock.
- (2) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(c) and (h) under the Securities Act based on: (i) the weighted average exercise price of options previously granted under the Plan to purchase an aggregate of 1,547,000 of the 3,000,000 shares registered hereunder at \$0.45 per share; and (ii) with respect to the remaining 1,453,000 shares registered hereunder, the average of the high and low prices of the Common Stock on the OTCBB on July 22, 2013.

### **Explanatory Note**

At the Annual Meeting of Stockholders of SafeStitch Medical, Inc. (the “Company”) held on June 6, 2011, the stockholders of the Company approved an amendment to the SafeStitch Medical, Inc. 2007 Incentive Compensation Plan (as so amended and subsequently amended as described below, the “Plan”) to increase the aggregate number of shares of the Company’s common stock, \$0.001 par value (the “Common Stock”), authorized for issuance under the Plan by 1,000,000 shares of Common Stock from 2,000,000 shares of Common Stock to 3,000,000 shares of Common Stock. At the Annual Meeting of Stockholders of the Company held on June 19, 2012, the Company’s stockholders approved a second amendment to the Plan to increase the aggregate number of shares of Common Stock authorized for issuance under the Plan by 2,000,000 shares of Common Stock from 3,000,000 shares of Common Stock to 5,000,000 shares of Common Stock.

The Company previously filed a Registration Statement on Form S-8 on August 12, 2009 (File No. 333-161291) registering the issuance of the initial 2,000,000 shares of the Company’s Common Stock under the Plan (the “Earlier Registration Statement”). The additional shares to be registered by this Registration Statement are of the same class as those covered by the Earlier Registration Statement. Pursuant to General Instruction E to Form S-8, the contents of the Earlier Registration Statement are incorporated herein by reference, except to the extent supplemented, amended or superseded by the information set forth herein.

## Part II. INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

### Item 3. Incorporation of Documents by Reference

The following documents, which have been filed with the Securities and Exchange Commission (the "SEC"), are hereby incorporated by reference into this Registration Statement:

- (a) The Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2012 filed on April 1, 2013;
- (b) The Company's Quarterly Report on Form 10-Q for the quarterly period ended March 31, 2013 filed on May 15, 2013;
- (c) The Company's Current Reports on Form 8-K filed on January 2, 2013, February 28, 2013, March 26, 2013 (other than the information furnished therein pursuant to Item 7.01 of Form 8-K) and June 18, 2013;
- (d) The portions of the Company's Definitive Proxy Statement on Schedule 14A filed on April 30, 2013 that are deemed "filed" with the SEC under the Securities Exchange Act of 1934, as amended (the "Exchange Act"); and
- (e) The description of the Company's Common Stock contained in the Company's Registration Statement on Form 8-A filed on July 30, 1991 and any amendments to such Registration Statement filed subsequently thereto, including all amendments or reports filed for the purpose of updating such description.

Additionally, all documents subsequently filed by the Company pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act (not including any information furnished under Items 2.02, 7.01 or 9.01 of Form 8-K, which information is not incorporated by reference herein) prior to the filing of a post-effective amendment which indicates that all securities offered have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated herein by reference and to be a part of this Registration Statement from the date of filing of such documents. Any statement contained in a document incorporated or deemed to be incorporated herein by reference will be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein, or in a subsequently filed document incorporated herein by reference, modifies or supersedes the statement. Any statement modified or superseded will not be deemed, except as modified or superseded, to constitute a part of this Registration Statement.

### Item 8. Exhibits

See "Exhibit Index" below.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Miami, State of Florida on this 26th day of July, 2013.

### SAFESTITCH MEDICAL, INC.

By: /s/ Jeffrey G. Spragens  
Jeffrey G. Spragens  
Chief Executive Officer and President  
(Principal Executive Officer)

## POWER OF ATTORNEY

Each person whose signature appears below hereby appoints Jeffrey G. Spragens and James J. Martin, and each of them, his or her true and lawful attorney-in-fact, with full power of substitution, with authority to execute in the name of each such person, and to file with the Securities and Exchange Commission, together with any exhibits thereto and other documents therewith, any and all amendments (including without limitation post-effective amendments) to this registration statement necessary or advisable to enable the registrant to comply with the Securities Act of 1933, as amended (the "Securities Act"), and any rules, regulations and requirements of the Securities and Exchange Commission in respect thereof, which amendments may make such other changes in the registration statement as the aforesaid attorney-in-fact executing the same deems appropriate. Pursuant to the requirements of the Securities Act, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Jeffrey G. Spragens</u> Jeffrey G. Spragens	Chief Executive Officer and President (Principal Executive Officer)	July 26, 2013
<u>/s/ Jane H. Hsiao, Ph.D.</u> Jane H. Hsiao, Ph.D.	Chairman of the Board of Directors	July 26, 2013
<u>/s/ Chao Chen, Ph.D.</u> Chao Chen, Ph.D.	Director	July 26, 2013
<u>/s/ Dr. Charles Filipi</u> Dr. Charles Filipi	Director	July 26, 2013
<u>/s/ Steven D. Rubin</u> Steven D. Rubin	Director	July 26, 2013
<u>/s/ Richard Pfenniger, Jr.</u> Richard Pfenniger, Jr.	Director	July 26, 2013
<u>/s/ Kevin Wayne</u> Kevin Wayne	Director	July 26, 2013
<u>/s/ James J. Martin</u> James J. Martin	Chief Financial Officer (Principal Financial and Accounting Officer)	July 26, 2013

**EXHIBIT INDEX**

**Exhibit  
Number**

**Description**

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5.1	Opinion of Counsel
23.1	Consent of EisnerAmper LLP
23.2	Consent of Counsel (contained in its opinion filed as Exhibit 5.1 hereto).
24.1	Power of Attorney (contained on signature pages hereto).

July 26, 2013

SafeStitch Medical, Inc.  
4400 Biscayne Boulevard  
Miami, Florida 33137

Re: Registration Statement on Form S-8 for the SafeStitch Medical, Inc. 2007 Incentive Compensation Plan, as Amended

Ladies and Gentlemen,

On or about the date hereof, SafeStitch Medical, Inc., a Delaware corporation (the "Company"), transmitted for filing with the Securities and Exchange Commission (the "Commission") a Registration Statement on Form S-8 (the "Registration Statement") under the Securities Act of 1933, as amended (the "Act"). The Registration Statement relates to the offering and sale by the Company of up to an additional 3,000,000 shares of the Company's common stock, par value \$0.001 per share ("Common Stock"), under the SafeStitch Medical, Inc. 2007 Incentive Compensation Plan, as Amended (the "Plan"). I have acted as counsel to the Company in connection with the preparation and filing of the Registration Statement.

In connection therewith, I have examined and relied upon the original or a copy, certified to our satisfaction, of: (i) the Certificate of Incorporation and Bylaws of the Company, each as amended to the date hereof; (ii) records of corporate proceedings of the Company related to the Plan; (iii) the Registration Statement and exhibits thereto; (iv) the Plan; and (v) such other documents and instruments as I have deemed necessary for the expression of the opinions contained herein. In making the foregoing examinations, I have assumed the genuineness of all signatures and the authenticity of all documents submitted to me as originals, and the conformity to original documents of all documents submitted to me as certified or photocopies. As to various questions of fact material to this opinion, I have relied, to the extent I deemed reasonably appropriate, upon representations of officers or directors of the Company and upon documents, records and instruments furnished to me by the Company, without independently checking or verifying the accuracy of such documents, records and instruments.

Based upon the foregoing examination and assuming that (i) the Company reserves for issuance an adequate number of authorized and unissued shares of Common Stock for issuance under the Plan, and (ii) the consideration required to be paid in connection with the issuance and sale of shares of Common Stock under the Plan is actually received by the Company as provided in the Plan, I am of the opinion that the shares of Common Stock issued under the Plan will be duly authorized, validly issued, fully paid and nonassessable.

This opinion is rendered only to you and is solely for your benefit in connection with the transactions covered hereby. This opinion may not be relied upon by you for any other purpose, or furnished to, quoted to or relied upon by any other person, firm or corporation for any purpose, without my prior written consent.

I hereby consent to the filing of this opinion as an exhibit to the Registration Statement. In giving such consent, I do not admit that I come within the category of persons whose consent is required by Section 7 of the Act or the rules and regulations of the Commission promulgated thereunder.

This opinion is specifically limited to the laws of the State of Florida and the federal laws of the United States of America and is as of the date hereof. Further, I express no opinion as to the "blue sky" laws of any state or jurisdiction. I assume no obligation to update or supplement this opinion to reflect any facts or circumstances that may hereafter come to my attention or any changes in law that may hereafter occur.

Sincerely,

By: /s/ Joshua B. Weingard  
SafeStitch Medical, Inc.  
Chief Legal Officer and Secretary

**CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

We consent to the incorporation by reference in the Registration Statement of SafeStitch Medical, Inc. (a development stage company) on Form S-8 to be filed on or about July 26, 2013 of our report dated April 1, 2013, on our audits of the consolidated financial statements as of December 31, 2012 and 2011 and for each of the years in the two-year period ended December 31, 2012 and for the period from September 15, 2005 (inception) through December 31, 2012, which report was included in the Annual Report on Form 10-K filed April 1, 2013.

/s/ EisnerAmper LLP

New York, New York  
July 26, 2013