

**PROXY**

**SAFESTITCH MEDICAL, INC.**

**4400 Biscayne Blvd.  
Miami, Florida 33137**

**THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS  
ANNUAL MEETING OF STOCKHOLDERS — JUNE 6, 2011**

The undersigned hereby appoints Jeffrey G. Spragens and James J. Martin and each of them severally, as proxies of the undersigned, each with full power to appoint his substitute, to represent the undersigned at the Annual Meeting (the "Annual Meeting") of Stockholders of SafeStitch Medical, Inc. (the "Company") to be held on June 6, 2011, and at any adjournments thereof, and to vote thereat all shares of common stock of the Company held of record by the undersigned at the close of business on April 26, 2011 in accordance with the instructions set forth on this proxy card and, in their discretion, to vote such shares on any other business as may properly come before the Annual Meeting and on matters incident to the conduct of the Annual Meeting. Any proxy heretofore given by the undersigned with respect to such stock is hereby revoked.

**PLEASE MARK, DATE AND SIGN THIS PROXY ON THE REVERSE SIDE AND RETURN IT IN THE ENCLOSED ENVELOPE**

**▼ FOLD AND DETACH HERE AND READ THE REVERSE SIDE ▼**

**THE BOARD OF DIRECTORS RECOMMENDS A VOTE "FOR" EACH OF THE FOLLOWING PROPOSALS**

**PROXY**

Please mark your vote in blue or black ink as shown here



1. Election of seven directors.

**NOMINEES:**

- (01) Jane H. Hsiao, Ph.D., M.B.A.
- (02) Jeffrey G. Spragens
- (03) Charles J. Filipi, M.D.
- (04) Chao C. Chen, Ph.D.
- (05) Richard C. Pfenniger, Jr.
- (06) Steven D. Rubin
- (07) Kevin T. Wayne, D.B.A.

FOR ALL NOMINEES	WITHHOLD AUTHORITY for all Nominees	FOR ALL EXCEPT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**INSTRUCTION:** To withhold authority to vote for any individual nominee(s), mark "FOR ALL EXCEPT" and, in the list to the left, strike a line through the name of the nominee for whom you wish to withhold your vote.

2. Approval of the amendment to the SafeStitch Medical, Inc. 2007 Incentive Compensation Plan to increase the number of shares of common stock reserved for issuance under the plan from 2,000,000 to 3,000,000

FOR	AGAINST	ABSTAIN
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. In their discretion, the proxy holders are authorized to vote upon such other matters as may properly come before the Annual Meeting or any postponement or adjournment thereof.

**THIS PROXY WHEN PROPERLY EXECUTED WILL BE VOTED AS INDICATED. IF NO CONTRARY INDICATION IS MADE, THIS PROXY WILL BE VOTED IN FAVOR OF ELECTING THE SEVEN NOMINEES TO THE BOARD OF DIRECTORS, IN FAVOR OF THE AMENDMENT TO THE 2007 STOCK INCENTIVE PLAN AND IN ACCORDANCE WITH THE JUDGMENT OF THE PERSONS NAMED AS THE PROXIES HEREIN ON ANY OTHER MATTERS THAT MAY PROPERLY COME BEFORE THE ANNUAL MEETING.**

The undersigned acknowledges receipt of the accompanying Notice of Annual Meeting of Stockholders and Proxy Statement for the June 6, 2011 meeting.

**COMPANY ID:**

**PROXY NUMBER:**

**ACCOUNT NUMBER:**

**Signature of Stockholder \_\_\_\_\_ Signature of Stockholder \_\_\_\_\_ Date \_\_\_\_\_, 2011.**

NOTE: Please sign exactly as your name or names appears hereon. When shares are held by joint owners, both must sign. When signing as attorney, executor, administrator, trustee or guardian, please give title as such. If a corporation, please sign in full corporate name by president or other authorized officer. If a partnership, please sign in partnership name by authorized person.

*Please mark, sign, date and return the Proxy Card promptly in the enclosed envelope.*