

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**
Washington, D.C. 20549

**FORM S-8
REGISTRATION STATEMENT**
*Under
The Securities Act of 1933*

MAXWELL TECHNOLOGIES, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

95-2390133
(IRS Employer
Identification No.)

**5271 Viewridge Court, Suite 100
San Diego, California 92123**
(Address of principal executive offices) (Zip Code)

Maxwell Technologies, Inc. 2005 Omnibus Equity Incentive Plan
(Full title of the Plan)

**David J. Schramm
Chief Executive Officer
MAXWELL TECHNOLOGIES, INC.
5271 Viewridge Court, Suite 100
San Diego, California 92123**
(Name and address of agent for service)

(858) 503-3200
(Telephone number, including area code, of agent for service)

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

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, \$0.10 par value	1,000,000	\$12.72	\$12,720,000	\$906.94

- (1) This Registration Statement shall also cover any additional shares of the Registrant's Common Stock which become issuable under the 2005 Omnibus Equity Incentive Plan (the "Omnibus Plan") by reason of any stock dividend, stock split, recapitalization or other similar transaction effected without the receipt of consideration which results in an increase in the number of the outstanding shares of Common Stock of Maxwell Technologies, Inc. (the "Company" or the "Registrant").
- (2) The proposed maximum offering price per share and in the aggregate were estimated pursuant to Rule 457(c) and (h) under the Securities Act of 1933, as amended (the "Securities Act"), solely for the purposes of calculating the registration fee based on the average of the high and low price per share of Common Stock on August 2, 2010, as quoted on the Nasdaq Global Market.

PART I

**INFORMATION REQUIRED IN THE
SECTION 10(a) PROSPECTUS**

The document(s) containing the information specified in Part I of Form S-8 will be sent or given to participants as specified by Securities Act Rule 428(b)(1).

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference

The following documents of the Company filed with the Securities and Exchange Commission (the "Commission") are incorporated herein by reference:

- (a) The Company's Annual Report on Form 10-K for its fiscal year ended December 31, 2009, filed with the Commission on March 5, 2010 (Commission File No. 001-15477);
- (b) The Company's Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2010, filed with the Commission on May 4, 2010, and June 30, 2010, filed with the Commission on August 6, 2010 (Commission File No. 001-15477);
- (c) The Company's Current Reports on Form 8-K, filed with the Commission on February 18, 2010, April 29, 2010 (as amended on Form 8-K/A, filed with the Commission on April 30, 2010), May 10, 2010, June 30, 2010, July 29, 2010 and July 30, 2010 (Commission File No. 001-15477); and
- (d) The description of the Company's Common Stock contained in its Registration Statement on Form 8-A filed with the Commission on March 8, 1983 (Commission File No. 000-10964), including any amendment or report filed for the purpose of updating such description.

All reports and definitive proxy or information statements filed pursuant to Section 13(a), 13(c), 14 and 15(d) of the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), after the date of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities then remaining unsold, shall be deemed to be incorporated by reference into this Registration Statement and to be a part hereof from the date of filing of such documents.

Item 4. Description of Securities

Not applicable.

Item 5. Interests of Named Experts and Counsel

Not applicable.

Item 6. Indemnification of Directors and Officers

Section 145(a) of the Delaware General Corporation Law (the "DGCL") provides in relevant part that a corporation may "indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with such action, suit or proceeding if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe the person's conduct was unlawful." With respect to derivative actions, Section 145(b) of the DGCL provides in relevant part that a corporation may "indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor... [by reason of his service in one of the capacities specified in the preceding sentence] against expenses (including attorneys' fees) actually and reasonably incurred by the person in connection with the defense or settlement of such action or suit if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which such person shall have been adjudged to be liable to the corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper."

The Registrant's Amended and Restated Certificate of Incorporation provides for the indemnification of directors to the fullest extent permissible under Delaware law.

The Registrant's Bylaws provides for the indemnification of officers, directors and third parties acting on behalf of the Registrant if such person acted in good faith and in a manner reasonably believed to be in and not opposed to the best interest of the Registrant, and, with respect to any criminal action or proceeding, the indemnified party had no reason to believe his or her conduct was unlawful.

Item 7. Exemption from Registration Claimed

Not applicable.

Item 8. Exhibits

See the attached Exhibit Index at page 7, which is incorporated herein by reference.

Item 9. Undertakings

A. The undersigned Registrant hereby undertakes: (1) to file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement (i) to include any prospectus required by Section 10(a)(3) of the Securities Act, (ii) to reflect in the prospectus any facts or events arising after the effective date of this Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in this Registration Statement – notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective Registration Statement; and (iii) to include any material information with respect to the plan of distribution not previously disclosed in this Registration Statement or any material change to such information in this Registration Statement; provided, however, that clauses (1)(i) and (1)(ii) shall not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or Section 15(d) of the Exchange Act that are incorporated by reference in this Registration Statement; (2) that for the purpose of determining any liability under the Securities Act each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof and (3) to remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the Registrant's 2005 Omnibus Equity Incentive Plan.

B. The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act that is incorporated by reference in this Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

C. Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or controlling persons of the Registrant pursuant to the indemnification provisions summarized in Item 6 or otherwise, the Registrant has been advised that, in the opinion of the Commission, such indemnification is against public policy as expressed in the Securities Act, and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/ s / M A R K R O S S I</u> Mark Rossi	Director	August 6, 2010
<u>/ s / J E A N L A V I G N E</u> Jean Lavigne	Director	August 6, 2010
<u>/ s / R O B E R T L. G U Y E T T</u> Robert L. Guyett	Director	August 6, 2010
<u>/ s / J O S É C O R T E S</u> José Cortes	Director	August 6, 2010
<u>/ s / B U R K H A R D G Ö E S C H E L</u> Burkhard Göeschel	Director	August 6, 2010
<u>/ s / R O G E R H O W S M O N</u> Roger Howsmon	Director	August 6, 2010
<u>/ s / Y O N Y O O N J O R D E N</u> Yon Yoon Jorden	Director	August 6, 2010

EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Exhibit</u>
4.1	Instruments Defining the Rights of Stockholders. Reference is made to the Company's Registration Statement on Form 8-A filed with the Commission on March 8, 1983 (Commission File No. 000-10964), including any amendments and exhibits thereto, which is incorporated by reference pursuant to Item 3(d) of this Registration Statement.
4.2	Maxwell Technologies, Inc. 2005 Omnibus Equity Incentive Plan, as amended through May 6, 2010 (filed as Exhibit 10.1 to the Company's Current Report on Form 8-K, filed with the Commission on May 10, 2010 (Commission File No. 001-15477) and incorporated herein by this reference).
5.1	Opinion and consent of Gunderson Dettmer Stough Villeneuve Franklin & Hachigian, LLP.
23.1	Consent of McGladrey & Pullen LLP, Independent Registered Public Accountants.
23.2	Consent of Gunderson Dettmer Stough Villeneuve Franklin & Hachigian, LLP is contained in Exhibit 5.1.
24.1	Power of Attorney. Reference is made to page 5 of this Registration Statement.

August 6, 2010

Maxwell Technologies, Inc.
5271 Viewridge Court
Suite 100
San Diego, CA 92123

Re: Maxwell Technologies, Inc. (the "Company") Registration Statement for
1,000,000 shares of Common Stock

Ladies and Gentlemen:

We refer to your registration statement on Form S-8 (the "Registration Statement") under the Securities Act of 1933, as amended (the "Securities Act") in connection with the registration of 1,000,000 shares of Common Stock (the "Shares") issuable under the 2005 Omnibus Equity Incentive Plan (the "Plan").

As your counsel, we have examined such matters of fact and questions of law as we have deemed necessary in order to render the opinion set forth herein. In connection with our opinion expressed below, we have relied as to certain factual matters on information obtained from public officials, officers of the Company and other sources believed by us to be responsible. We express no opinion as to matters governed by any laws other than the laws of the Delaware General Corporation Law and the federal laws of the United States.

Based upon and subject to the foregoing, we advise you that, in our opinion, when the Shares have been issued and sold pursuant to the applicable provisions of the Plan, and in accordance with the Registration Statement, such Shares will be validly issued, fully paid and nonassessable shares of the Company's Common Stock.

We hereby consent to the filing of this opinion as an exhibit to the Registration Statement. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act.

Very truly yours,

/s/ Gunderson Dettmer Stough Villeneuve Franklin & Hachigian, LLP

Consent of Independent Registered Public Accounting Firm

We consent to the incorporation by reference in this Registration Statement on Form S-8 of Maxwell Technologies, Inc., of our reports, dated March 5, 2010, relating to our audits of the consolidated financial statements, financial statement schedule and internal control over financial reporting, which appear in the Annual Report on Form 10-K of Maxwell Technologies, Inc. for the year ended December 31, 2009.

/s/ McGladrey & Pullen, LLP

San Diego, California
August 6, 2010