

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

**FORM S-8
REGISTRATION STATEMENT**

UNDER
THE SECURITIES ACT OF 1933

DYNAVAX TECHNOLOGIES CORPORATION

(Exact Name of Registrant as Specified in its Charter)

Delaware
(State of Incorporation)

33-0728374
(I.R.S. Employer
Identification Number)

2929 Seventh Street, Suite 100
Berkeley, CA 94710
(510) 848-5100
(Address, Including Zip Code, and Telephone Number,
Including Area Code, of Registrant's Principal Executive Offices)

2004 Stock Incentive Plan
(Full Title of the Plan)

Deborah A. Smeltzer
Vice President, Operations and Chief Financial Officer
Dynavax Technologies Corporation
2929 Seventh Street, Suite 100
Berkeley, CA 94710
(510) 848-5100
(Name, Address, Including Zip Code, and Telephone Number,
Including Area Code, of Agent for Service)

Copies to:

Robert L. Jones, Esq.
Glen Y. Sato, Esq.
Cooley Godward Kronish LLP
Five Palo Alto Square
3000 El Camino Real
Palo Alto, CA 94306
(650) 843-5000

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. (Check one):

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 | Proposed maximum aggregate offering price | Amount of registration fee |
|----------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------|-------------------------------------------|----------------------------|
| Common Stock, \$0.001 par value per share under the Dynavax Technologies Corporation 2004 Stock Incentive Plan | 400,000 | \$1.67 (2) | \$668,000 | \$26.26 |

- (1) This represents the increase in the number of shares of common stock of the Registrant reserved for issuance under the Dynavax Technologies Corporation 2004 Stock Incentive Plan pursuant to an evergreen provision contained therein. In accordance with Rule 416 under the Securities Act of 1933, as amended, this registration statement shall be deemed to cover any additional securities that may from time to time be offered or issued resulting from stock splits, stock dividends, recapitalization or other similar transactions.
- (2) Represents the average of the high (\$1.78) and low (\$1.55) prices of the Common Stock on August 4, 2008, and is set forth solely for the purpose of calculating the filing fee pursuant to Rule 457(h) and is used only for shares without a fixed exercise price. None of such shares have been issued or are subject to outstanding options.

EXPLANATORY NOTE

Pursuant to General Instruction E of Form S-8, this registration statement incorporates by reference Registration Statement No. 333-113220 on Form S-8, filed with the Securities and Exchange Commission on March 2, 2004, which registered 3,500,000 shares of the Company's common stock with respect to the 2004 Stock Incentive Plan for which a registration fee was paid with the filing of such Registration Statement.

PART II INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents filed by the Registrant with the Commission are incorporated by reference herein (other than current reports furnished under Item 2.02 of Form 8-K):

1. The Annual Report on Form 10-K of the Registrant for the fiscal year ended December 31, 2007, filed on March 17, 2008.
2. The Quarterly Reports on Form 10-Q of the Registrant for the three months ended March 31, 2008, filed on May 2, 2008, and for the three and six months ended June 30, 2008, filed on August 6, 2008.
3. The Registrant's Current Reports on Form 8-K, filed on February 12, 2008, February 22, 2008, May 20, 2008, June 5, 2008, and August 6, 2008.
4. The description of the Registrant's Common Stock contained in the Registrant's Registration Statement on Form 8-A, filed February 6, 2004, including any amendment or report filed for the purpose of updating such description.
5. All documents filed by the Registrant pursuant to Sections 13(a), 13(c), 14 and 15(d) of 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 de-registers all securities then remaining unsold, shall be deemed to be incorporated by reference in this Registration Statement and to be a part hereof from the date of filing of such documents.

Any statement contained in a document incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein or in any other subsequently filed document which also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this Registration Statement.

Item 8. Exhibits.

- 4.1(1) Registration Rights Agreement
- 4.2(1) Form of Warrant
- 4.3(2) Form of Specimen Common Stock Certificate
- 5.1 Opinion of Cooley Godward Kronish LLP
- 23.1 Consent of Independent Registered Public Accounting Firm
- 23.2 Consent of Cooley Godward Kronish LLP (contained in Exhibit 5.1 to this Registration Statement)
- 24.1 Power of Attorney (see Signature Page)

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- (1) Incorporated by reference to Dynavax Technologies Corporation's Registration Statement (File No. 333-145836) on Form S-3 filed on August 31, 2007.
 - (2) Incorporated by reference to Amendment No. 3 to Dynavax Technologies Corporation's Registration Statement (File No. 333-109965) on Form S-1 filed on January 16, 2004.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant, Dynavax Technologies Corporation, 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 Berkeley, State of California, on August 6, 2008

DYNAVAX TECHNOLOGIES CORPORATION

By: /s/ Dino Dina, M.D.
Dino Dina, M.D.
President, Chief Executive Officer and Director

POWER OF ATTORNEY

Each person whose signature appears below constitutes and appoints Dino Dina, M.D. and Deborah A. Smeltzer, and each of them, as attorneys-in-fact, each with the power of substitution, for him or her in any and all capacities, to sign any amendment to this Registration Statement and to file the same, with exhibits thereto and other documents in connection therewith, with the Commission, granting to said attorneys-in-fact, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming the said attorney-in-fact or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act, this Registration Statement has been signed by the following persons in the capacities and on the date indicated.

| <u>Signature</u> | <u>Title</u> | <u>Date</u> |
|-----------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|----------------|
| <u>/s/ Dino Dina, M.D.</u> Dino Dina, M.D. | President, Chief Executive Officer and Director <i>(Principal Executive Officer)</i> | August 6, 2008 |
| <u>/s/ Deborah A. Smeltzer</u> Deborah A. Smeltzer | Vice President, Operations and Chief Financial Officer <i>(Principal Financial and Accounting Officer)</i> | August 6, 2008 |
| <u>/s/ Arnold L. Oronsky</u> Arnold L. Oronsky, Ph.D. | Chairman of the Board | August 6, 2008 |
| <u>/s/ Nancy L. Buc</u> Nancy L. Buc | Director | August 6, 2008 |
| <u>/s/ Dennis A. Carson</u> Dennis A. Carson, M.D. | Director | August 6, 2008 |
| <u>/s/ Denise M. Gilbert</u> Denise M. Gilbert, Ph.D. | Director | August 6, 2008 |
| <u>/s/ David M. Lawrence</u> David M. Lawrence, M.D. | Director | August 6, 2008 |
| <u>/s/ Peggy V. Phillips</u> Peggy V. Phillips | Director | August 6, 2008 |
| <u>/s/ Stanley A. Plotkin</u> Stanley A. Plotkin, M.D. | Director | August 6, 2008 |

INDEX TO EXHIBITS

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GLEN Y. SATO
(650) 843-5502
gsato@cooley.com

August 6, 2008

Dynavax Technologies Corporation
2929 Seventh Street, Suite 100
Berkeley, CA 94710
Re: 2004 Stock Incentive Plan

Ladies and Gentlemen:

You have requested our opinion with respect to certain matters in connection with the filing by Dynavax Technologies Corporation (the "Company") of a Registration Statement on Form S-8 (the "Registration Statement") with the Securities and Exchange Commission covering the offering of up to 400,000 shares of the Company's Common Stock, \$0.001 par value (the "Shares"), pursuant to its 2004 Stock Incentive Plan (the "Plan").

In connection with this opinion, we have examined the Registration Statement and related Prospectus, your Certificate of Incorporation and By-laws, as amended, and such other documents, records, certificates, memoranda and other instruments as we deem necessary as a basis for this opinion. We have assumed the genuineness and authenticity of all documents submitted to us as originals, the conformity to originals of all documents submitted to us as copies thereof, and the due execution and delivery of all documents where due execution and delivery are a prerequisite to the effectiveness thereof.

On the basis of the foregoing, and in reliance thereon, we are of the opinion that the Shares, when sold and issued in accordance with the Plan, the Registration Statement and related Prospectus, will be validly issued, fully paid, and nonassessable (except as to shares issued pursuant to certain deferred payment arrangements, which will be fully paid and nonassessable when such deferred payments are made in full). We consent to the filing of this opinion as an exhibit to the Registration Statement.

Sincerely,

Cooley Godward Kronish LLP

By: /s/ Glen Y. Sato

Glen Y. Sato

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the 2004 Stock Incentive Plan of Dynavax Technologies Corporation of our reports dated March 13, 2008, with respect to the consolidated financial statements of Dynavax Technologies Corporation included in its Annual Report (Form 10-K) for the year ended December 31, 2007, and the effectiveness of internal control over financial reporting of Dynavax Technologies Corporation filed with the Securities and Exchange Commission.

San Francisco, California
August 4, 2008