## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| <b>STATEMENT</b> | OF CHANGES | S IN BENEFICIA | L OWNERSHIP |
|------------------|------------|----------------|-------------|

| l | OMB APPROVAL           |           |  |  |  |  |  |  |  |  |
|---|------------------------|-----------|--|--|--|--|--|--|--|--|
| l | OMB Number:            | 3235-0287 |  |  |  |  |  |  |  |  |
| l | Estimated average burd | len       |  |  |  |  |  |  |  |  |
| l | hours per response:    | 0.5       |  |  |  |  |  |  |  |  |

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| 1. Name and Address of Reporting Person*  ROSENTHALE MARVIN E |  |  |  |         | DI   | 2. Issuer Name <b>and</b> Ticker or Trading Symbol  DISCOVERY LABORATORIES INC /DE/ DSCO |         |       |                   |   |                    |                                      |   |       |   | all app   | licable)<br>tor   | ng Perso  | Person(s) to Issuer<br>10% Owner                 |  |
|---|--|--|--|---------|--|--|---------|-------|-------------------|---|--------------------|--------------------------------------|---|-------|---|---|---|---|--|--|
| (Last)<br>2600 KE   | (Last) (First) (Middle) 2600 KELLY ROAD  |  |  |         |  | 3. Date of Earliest Transaction (Month/Day/Year) 09/29/2008                              |         |       |                   |   |                    |                                      |   |       |   | Officer (give title below)  |   |   | Other (specify below)                            |  |
| (Street) WARRINGTON PA 18976 (City) (State) (Zip)             |  |  |  |         | 4. If  | 4. If Amendment, Date of Original Filed (Month/Day/Year)                                 |         |       |                   |   |                    |                                      |   |       | 6. Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person |   |   |   |  |  |
|   |  | Tabl                                       | e I - Noi                                    | n-Deri\ | ative  | Se   | curitie | s Acc | uired,            | Dis   | posed o            | f, or                                | Bene  | efici | ally C  | wne   | ed  |   |  |  |
| Date  |  |  |  |         | exition 2A. Deemed Execution Date, if any (Month/Day/Year) |  |         |       |                   | ties Acquired (A)<br>d Of (D) (Instr. 3, 4                  |                    |                                      | 4 and Secui<br>Benet  |       | cially<br>I Following   | 6. Ownership<br>Form: Direct<br>(D) or Indirect<br>(I) (Instr. 4) |   | 7. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |  |  |
|   |  |  |  |         |  |  |         |       | Code              | v   | Amount             | (                                    | A) or<br>D)   | Price | Trar  |   | ction(s)<br>3 and 4)  |   |  | (111501.4)   |
| Common Stock 09/29  |  |  |  |         | 9/2008   | 2008   |         | P     |                   | 15,000  |                    | A                                    | \$1.  | .87   | 90,000(1)   |   |   | [   | by<br>Spouse                                     |  |
| Common Stock 09/29.   |  |  |  |         | 9/2008   | /2008  |         | P     |                   | 0   |                    | A                                    | \$0   |       | 123,711(2)  |   |   | [   | by Trust   |  |
|   | Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) |  |  |         |  |  |         |       |                   |   |                    |                                      |   |       |   |   |   |   |  |  |
| 1. Title of<br>Derivative<br>Security<br>(Instr. 3)           | 2.<br>Conversion<br>or Exercise<br>Price of<br>Derivative<br>Security  | 3. Transaction<br>Date<br>(Month/Day/Year) | 3A. Deem<br>Execution<br>if any<br>(Month/Da | Date,   | 4.<br>Transaction<br>Code (Instr.<br>8)                    |  | n of l  |       | Expiratio         | 5. Date Exercisable a<br>Expiration Date<br>Month/Day/Year) |                    | Amo<br>Secu<br>Unde<br>Deriv<br>Secu | 7. Title and<br>Amount of<br>Securities<br>Underlying<br>Derivative<br>Security (Instr.<br>and 4) |       | 8. Prio<br>Deriva<br>Secur<br>(Instr.   | ative rity :  | 9. Number of<br>derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction<br>(Instr. 4) | Ow<br>For<br>Dire<br>or I<br>(I) (                                | nership<br>m:<br>ect (D)<br>ndirect<br>Instr. 4) | 11. Nature<br>of Indirect<br>Beneficial<br>Ownership<br>(Instr. 4) |
|   |  |  |  |         | Code   | v  | (A)     |       | Date<br>Exercisal |   | Expiration<br>Date | Title                                | or<br>Number<br>of  |       |   |   |   |   |  |  |

## Explanation of Responses:

- 1. Shares are disclaimed by reporting person and include (i) 40,000 shares held in spouse's IRA, and (ii) 50,000 shares held in a separate account for which Mrs. Rosenthale is the sole beneficiary and trustee, within the Marvin & Patricia Rosenthale Family Revocable Trust.
- $2. \ Shares \ Held \ by \ the \ Marvin \ and \ Patricia \ Rosenthale \ Family \ Revocable \ Trust, \ Marvin \ and \ Patricia \ Rosenthale, \ Trustees.$

Marvin E. Rosenthale

10/01/2008

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- \* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.