| SEC Form 4 | |
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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

| Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. <i>See</i> Instruction 1(b) |
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| Instruction 1(b). |
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

| 1. Name and Address of Reporting Person* <u>MARXE AUSTIN W & GREENHOUSE</u> <u>DAVID M</u> | | | 2. Issuer Name and Ticker or Trading Symbol <u>EnteroMedics Inc</u> [ETRM] | | tionship of Reporting (all applicable) Director Officer (give title | Perso X | n(s) to Issuer 10% Owner Other (specify |
|--|---------------|-------|--|-------|---|------------|---|
| (Last) (First) (Middle) C/O SPECIAL SITUATIONS FUNDS | | , | 3. Date of Earliest Transaction (Month/Day/Year) 02/04/2011 | | below) | | below) |
| 527 MADISON | AVENUE, SUITE | 2600 | 4. If Amendment, Date of Original Filed (Month/Day/Year) | Line) | vidual or Joint/Group F | 0. | |
| (Street) | | | | | Form filed by One F | • | 0 |
| NEW YORK | NY | 10022 | | | Form filed by More Person | than (| One Reporting |
| (City) | (State) | (Zip) | | | | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any | 3. Transa Code (| | 4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially | Form: Direct (D) or Indirect | | |
|---------------------------------|--|---|------------------------|--|--|---------------|---------------------------------|---|---------------------------------|---|--|
| | | (Month/Day/Year) | 8) Code V | | Amount | (A) or (D) | Price | Owned Following Reported Transaction(s) (Instr. 3 and 4) | (I) (Instr. 4) | Ownership (Instr. 4) | |
| Common Stock | 02/04/2011 | | S | | 50,000 | D | \$ 2.6706 ⁽¹⁾ | 1,226,900 | I | By Limited Partnerships | |
| Common Stock | 02/07/2011 | | S | | 25,000 ⁽²⁾ | D | \$2.7663 ⁽¹⁾ | 1,201,900 ⁽²⁾ | I ⁽²⁾ | By Limited Partnerships ⁽²⁾ | |

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transa Code (8) | | of | | 6. Date Exerc Expiration Da (Month/Day/Y | 7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|---|---|--|---|------------------------------|---|-----|-----|--|---|-------|---|--|--|--|--|
| | | | | Code | v | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |

Explanation of Responses:

1. This is a weighted average price.

2. This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Cayman Fund, LP (Cayman) and Special Situations Life Sciences Fund, L.P. (LS), respectively. 400,907 shares of Common Stock are held by Cayman and 800,993 shares of Common Stock are held by LS. The interest of Marxe and Greenhouse in the shares of Common Stock owned by Cayman and LS is limited to the extent of his pecuniary interest.

> Austin W. Marxe 02/08/2011 David M. Greenhouse

02/08/2011

Date

** Signature of Reporting Person

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.