

REPOS THERAPEUTICS INC.
Form 4
February 28, 2011

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287
Expires: January 31, 2005
Estimated average burden 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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
PERCEPTIVE ADVISORS LLC

2. Issuer Name and Ticker or Trading Symbol
REPOS THERAPEUTICS INC.
[RPRX]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
499 PARK AVENUE, 25TH FLOOR,
(Street)

3. Date of Earliest Transaction (Month/Day/Year)
02/24/2011

___ Director ___X___ 10% Owner
___ Officer (give title below) ___ Other (specify below)

NEW YORK, NY 10022

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
___ Form filed by One Reporting Person
X Form filed by More than One Reporting Person

(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 (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) | | | |
|------------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|-----------|---|----------------------------------|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock <u>(1)</u> <u>(2)</u> | 02/24/2011 | | P | | 110,000 | A | \$ 4.36 | 1,254,365 | I | See Footnotes (1) and <u>(2)</u> |
| Common Stock <u>(1)</u> <u>(2)</u> | 02/25/2011 | | P | | 38,922 | A | \$ 4.49 | 1,293,287 | I | See Footnotes (1) and <u>(2)</u> |
| Common Stock | 02/25/2011 | | P | | 10,000 | A | \$ 4.49 | 1,303,287 | I | See Footnotes (1) and <u>(1)</u> |

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

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SEC 1474
(9-02)

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. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned (Instr. 5) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| PERCEPTIVE ADVISORS LLC 499 PARK AVENUE, 25TH FLOOR NEW YORK, NY 10022 | | X | | |
| PERCEPTIVE LIFE SCIENCES MASTER FUND LTD C/O PERCEPTIVE ADVISORS LLC 499 PARK AVENUE, 25TH FLOOR NEW YORK, NY 10022 | | X | | |

Signatures

/s/ JOSEPH EDELMAN 02/28/2011

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).

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- (1) This Form 4 is being filed by Perceptive Life Sciences Master Fund Ltd. (the "Master Fund"), Perceptive Advisors LLC (the "Advisor") and Joseph Edelman. The Advisor serves as investment manager to the Master Fund. Mr. Edelman is the managing member of the Advisor and a member of the Board of Directors of the Issuer.

- (2) This amount reflects the amount of securities held by the Master Fund immediately following the transaction requiring the filing of this statement. In accordance with Instruction 5(b)(iv) of Form 4, the entire amount of the Issuer's securities held by the Master Fund is reported herein. Each of Mr. Edelman and the Advisor disclaims, for purposes of Section 16 of the Securities Exchange Act of 1934, beneficial ownership of such securities, except to the extent of his/its indirect pecuniary interest therein, and this report shall not be deemed an admission that Mr. Edelman or the Advisor is the Beneficial owner of such securities for purposes of Section 16 or for any other purposes.

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

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