

REPOS THERAPEUTICS INC.

Form 4

March 18, 2011

**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.  
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

## OMB APPROVAL

OMB  
Number: 3235-0287  
Expires: January 31,  
2005  
Estimated average  
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response... 0.5

(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,**

3. Date of Earliest Transaction  
(Month/Day/Year)  
**03/16/2011**

\_\_\_\_ Director \_\_\_\_X\_\_\_\_ 10% Owner  
\_\_\_\_ Officer (give title below) \_\_\_\_ Other (specify below)

(Street)  
**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 Stork	03/16/2011		P		26,500	A	\$ 5.19	1,498,060	I	See Footnotes (1) (2)
Common Stock	03/16/2011		P		60,000	A	\$ 5.22	1,558,060	I	See Footnotes (1) (2)

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

**Persons who respond to the collection of  
information contained in this form are not  
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SEC 1474  
(9-02)

number.

**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 Following Reported Transaction (Instr. 10)
				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

03/17/2011

\*\*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).

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

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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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