

INFINITY PHARMACEUTICALS, INC.
Form SC 13G/A
February 14, 2014

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

SCHEDULE 13G/A

(Amendment No. 1)

Under the Securities Exchange Act of 1934

Infinity Pharmaceuticals, Inc.

(Name of Issuer)

Common Stock

(Title of Class of Securities)

45665G303

(CUSIP Number)

December 31, 2013

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b)
 Rule 13d-1(c)

oRule 13d-1(d)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

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

CUSIP No. 45665G303 13G/A Page 2 of 7 Pages

names of reporting persons

i.r.s. identification no. of above persons (entities only)

1.

Perceptive Advisors LLC

2. check the appropriate box if a (a) group* (b) sec use only

3.

citizenship or place of organization

4. **Delaware, United States of America**

number of shares	5. sole voting power	0
beneficially owned by each reporting person with:	6. shared voting power	350,000
	7. sole dispositive power	0
	8. shared dispositive power	350,000
9.	aggregate amount beneficially owned by each reporting person	350,000
10.	check box if the aggregate amount in row (9) excludes certain shares (See Instructions)	<input type="radio"/>
11.	percent of class represented by amount in row (9)	0.73%
12.	type of reporting person (See Instructions)	IA

CUSIP No. 45665G303 **13G/A** Page 3 of 7 Pages

names of reporting persons

i.r.s. identification no. of above persons
(entities only)

13.

Joseph Edelman

14. check the appropriate box if a group* (a)
sec use only (b)

15.

citizenship or place of organization

16. **United States of America**

number of shares	17. sole voting power	0
beneficially owned by each reporting person with:	18. shared voting power	350,000
	19. sole dispositive power	0
	20. shared dispositive power	350,000
21.	aggregate amount beneficially owned by each reporting person	350,000
22.	check box if the aggregate amount in row (9) excludes certain shares (See Instructions)	<input type="radio"/>
23.	percent of class represented by amount in row (9)	0.73%
24.	type of reporting person (See Instructions)	IN

CUSIP No. 45665G303 **13G/A** Page 4 of 7 Pages

Item 1.

Name

- (a) of Infinity Pharmaceuticals, Inc.
Issuer:

Address
of

- (b) Issu**780 Memorial Drive**
Prin**Cambridge, MA 02139**
Executive
Offices:

Item 2.

This Schedule 13G/A (the
“Schedule”) is being filed with
respect to shares of Common
Stock (as defined below) of

- Name
of **Infinity Pharmaceuticals, Inc.**
(a) **(the “Issuer”) which are**
Person **beneficially owned by**
Filing: **Perceptive Advisors LLC and**
Joseph Edelman (together, the
“Reporting Persons”). See Item 4
below.

Address
of

- Principal
Business
(b) Office **499 Park Avenue, 25th Floor**
New York, NY 10022
or,
if
none,
Residence:

Perceptive Advisors LLC is a

- (c) **Citizenship:**
Delaware limited liability
company and Joseph Edelman is
a United States Citizen.

Title
of

- (d) **Class** Common Stock
of
Securities:

(e) CUSIP
45665G303
Number:

If this statement is filed pursuant to
Item §§240.13d-1(b) or 240.13d-2(b) or

3. (c), check whether the person filing
is a:

(a) Broker or dealer registered under
section 15 of the Act (15 U.S.C.
78o).

(b) Bank as defined in section 3(a)(6)
of the Act (15 U.S.C. 78c).

(c) Insurance company as defined in
section 3(a)(19) of the Act (15
U.S.C. 78c).

(d) Investment company registered
under section 8 of the Investment
Company Act of 1940 (15 U.S.C
80a-8).

(e) An investment adviser in
accordance with
§240.13d-1(b)(1)(ii)(E);

(f) An employee benefit plan or
endowment fund in accordance
with §240.13d-1(b)(1)(ii)(F);

(g) A parent holding company or
control person in accordance with
§ 240.13d-1(b)(1)(ii)(G);

(h) A savings associations as defined
in Section 3(b) of the Federal
Deposit Insurance Act (12 U.S.C.
1813);

(i) A church plan that is excluded
from the definition of an
investment company under
section 3(c)(14) of the Investment
Company Act of 1940 (15 U.S.C.
80a-3);

(j) Group, in accordance with
§240.13d-1(b)(1)(ii)(J).

CUSIP No. 45665G303 **13G/A** Page 5 of 7 Pages

Item 4. Ownership.

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

Amount
(a) beneficially
owned:

The Reporting
Persons
beneficially
own 350,000
shares of
Common
Stock held by
a private
investment
fund (the
"Fund") to
which
Perceptive
Advisors LLC
serves as the
investment
manager. Mr.
Edelman is the
managing
member of
Perceptive
Advisors LLC.

Percent of
(b) class:

The beneficial
ownership
percentage of
0.73% is based
on the
48,086,619
outstanding
shares of
Common
Stock of the
Issuer, as
disclosed on
the Issuer's
Form 10-Q
filed with the
SEC on
November 7,
2013.

Number of shares as
(c) to which the person
has:

- (i) Sole power to vote or to direct the vote: 0
- (ii) Shared power to vote or to direct the vote: 350,000
- (iii) Sole power to dispose or to direct the disposition of: 0
- (iv) Shared power to dispose or to direct the disposition of: 350,000

Item 5. Ownership of Five Percent or Less of a Class.

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: x.

Item 6. Ownership of More Than Five Percent on Behalf of Another Person.

The Fund described in Item 4 has the right to receive or the power to direct the receipt of dividends from, or the proceeds from, the sale of the securities held in its account. Filing of this statement by the Reporting Persons shall not be deemed an admission that they beneficially own the securities reported herein. The Reporting Persons expressly disclaim beneficial ownership of all securities reported herein.

Item 7. Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company or Control Person.

Not applicable.

CUSIP No. 45665G303 13G/A Page 6 of 7 Pages

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Item 9. Notice of Dissolution of Group.

Not applicable.

Item 10. Certification.

The following certification shall be included if the statement is filed pursuant to §240.13d-1(b):

- (a) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect. x

CUSIP No. 45665G303 13G/A Page 7 of 7 Pages

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 14, 2014

Date

PERCEPTIVE ADVISORS LLC

/s/ Joseph Edelman

Signature

Joseph Edelman/Managing Member

Name/Title

February 14, 2014

Date

/s/ Joseph Edelman

Signature

Joseph Edelman

Name/Title

The original statement shall be signed by each person on whose behalf the statement is filed or his authorized representative. If the statement is signed on behalf of a person by his authorized representative other than an executive officer or general partner of the filing person, evidence of the representative's authority to sign on behalf of such person shall be filed with the statement, provided, however, that a power of attorney for this purpose which is already on file with the Commission may be incorporated by reference. The name and any title of each person who signs the statement shall be typed or printed beneath his signature.

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See §240.13d-7 for other parties for whom copies are to be sent.

Attention: Intentional misstatements or omissions of fact constitute Federal criminal violations (See 18 U.S.C. 1001)