# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIESM

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: 3235-0104

Expires: December 31,

Estimated average burden hours per response 0.5

1. Name and Address of Reporting Person <sup>*</sup>	2. Date of Event Requiring Statement (Month/Day/Year) 12/07/2012	3. Issuer Name <b>and</b> Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC [ACRX]			
PERCEPTIVE ADVISORS LLC		to Issuer O	5. If Amendment, Date of Original Filed (Month/Day/Year)		
(Last) (First) (Middle) 499 PARK AVENUE, 25TH FLOOR,		Officer (give Other	6. Individual or Joint/Group Filing (Check Applicable Line)  Form filed by One		
(Street) NEW YORK NY 10022		title below) (specify below)	Reporting Person  Form filed by More than One Reporting Person		
(City) (State) (Zip)					

Table I - Non-Derivative Securities Beneficially Owned						
,	2. Amount of Securities Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock	5,008,400	I	See Footnotes (1) (2)			

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)									
1. Title of Derivative Security (Instr. 4)	Exercisable and		Securities Underlying Derivative Security (Instr. 4)		Conversion or Excercise	Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership		
	Date Exercisable	Expiration Date	Title	Amount or Number of SharesM	Price of Derivative Security	or Indirect (I) (Instr. 5)	(Instr. 5)		

#### **Explanation of Responses:**

- 1. This Form 3 is being filed by Perceptive Life Science Master Fund Ltd. (the "Master Fund"), Perceptive Advisors LLC (the "Advisor") and Joseph Edelman. The Advisor serves as the investment manager of 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 3, the entire amount of the Issuer's securities held by 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 either Mr. Edelman or the Advisor is the beneficial owner of such securities for purposes of Section 16 or for any other purposes.

/s/ Joseph Edelman, managing member of 12/13/2012 Perceptive Advisors LLC

\*\* 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 5(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.

Exhibit 24

### Information Regarding Joint Filers

Designated Filer of Form 3: Perceptive Advisors LLC

Date of Earliest Transaction Required to be Reported: December 7, 2012

Issuer Name and Ticker Symbol: AcelRx Pharmaceuticals, Inc. [ACRX]

Names: Perceptive Life Sciences Master Fund Ltd. and Joseph Edelman

Address: Perceptive Advisors LLC

499 Park Avenue, 25th Floor

New York, NY 10022

### Signatures:

The undersigned, Perceptive Life Sciences Master Fund Ltd. and Joseph Edelman are jointly filing the attached Statement of Beneficial Ownership of Securities on Form 3 with Perceptive Advisors LLC with respect to the beneficial ownership of securities of AcelRx Pharmaceuticals, Inc

Perceptive Life Sciences Master Fund Ltd.

By: Perceptive Advisors LLC, its investment manager

By: /s/ Joseph Edelman

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Joseph Edelman, managing member

JOSEPH EDELMAN

/s Joseph Edelman

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By: Joseph Edelman