# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### SCHEDULE 13G/A

(Amendment No. 4)

**Under the Securities Exchange Act of 1934** 

## AcelRx Pharmaceuticals, Inc.

,		
(Name of Issuer)		
Common Stock		
(Title of Class of Securities)		
00444T100		
(CUSIP Number)		
December 31, 2016		
(Date of Event Which Requires Filing of this Statement)		
Check the appropriate box to designate the rule pursuant to which this Schedule is filed:		

\*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.

Rule 13d-1(b)

Rule 13d-1(c)

Rule 13d-1(d)

X

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.

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1.	names of reins. identify	fication	no. of above persons (entities only)	
2.	check the	appropri	ate box if a group*	(a) □ (b) □
3.	sec use onl	у		
4.	_	_	e of organization States of America	
	mber of shares	5.	sole voting power	0
	neficially vned by	6.	shared voting power	5,408,728
re	each porting	7.	sole dispositive power	0
per	son with:	8.	shared dispositive power	5,408,728
9.	aggregate amount beneficially owned by each reporting person			5,408,728
10.	check box if the aggregate amount in row (9) excludes certain shares (See Instructions)			
11.	percent of class represented by amount in row (9)			11.93%
12.	type of reporting person (See Instructions)			IA

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1.	names of re i.r.s. identif	fication	persons no. of above persons (entities only)	
2.	check the	ppropri	ate box if a group*	(a) □ (b) □
3.	sec use onl	у		
4.	citizenship United Sta	_	e of organization merica	
	mber of shares	5.	sole voting power	0
	neficially wned by	6.	shared voting power	5,408,728
re	each porting	7.	sole dispositive power	0
	son with:	8.	shared dispositive power	5,408,728
9.	aggregate amount beneficially owned by each reporting person			5,408,728
10.	check box if the aggregate amount in row (9) excludes certain shares (See Instructions)			
11.	percent of class represented by amount in row (9)			11.93%
12.	type of reporting person (See Instructions)			IN

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1.	names of reporting persons i.r.s. identification no. of above persons (entities only)					
	Perceptive	Life Sc	iences Master Fund, Ltd.			
2.	check the a	ppropri	ate box if a group*		(a) □ (b) □	
3.	sec use onl	у				
4.	citizenship	or plac	e of organization			
	United Sta	tes of Aı	nerica			
	mber of shares	5.	sole voting power		0	
	eficially vned by	6.	shared voting power		5,408,728	
	each porting	7.	sole dispositive power		0	
per	rson with:				5,408,728	
9.	aggregate amount beneficially owned by each reporting person 5,408			5,408,728		
10.	check box if the aggregate amount in row (9) excludes certain shares (See Instructions)					
11.	percent of class represented by amount in row (9)					
12.	type of reporting person (See Instructions)					

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Item 1.					
(a)	Name of I	ssuer:	AcelRx Pharm	naceuticals, Inc.	
(b)	Address o	f Issuer's Principal Executiv	e Offices:		veston Drive d City, CA 94063
Item 2.					
(a)	Name of F	Person Filing:		Common Stock (as defined below) o which are beneficially owned by Per Perceptive Life Sciences Master Fu	") is being filed with respect to shares of f AcelRx Pharmaceuticals, Inc. (the "Issuer") reeptive Advisors LLC (the "Advisor"), nd, Ltd (the "Master Fund") and Joseph Edelman sor and the Master Fund, the "Reporting
(b)	Address o	f Principal Business Office	or, if none, Reside	ence:	51 Astor Place, 10 <sup>th</sup> Floor New York, NY 10022
(c)	(c) Citizenship:				ware limited liability company, Perceptive Life man Islands corporation and Joseph Edelman is
(d)	Title of C	lass of Securities:		Common Stock	
(e)	) CUSIP Number:			00444T100	
Item 3.	If this st	atement is filed pursuant to	§§240.13d-1(b)	or 240.13d-2(b) or (c), check whether	the person filing is a:
(a) (b) (c) (d) (e) (f) (g) (h) (i)		Bank as defined in section Insurance company as def Investment company regis An investment adviser in An employee benefit plan A parent holding compan A savings associations as	a 3(a)(6) of the Adined in section 30 stered under section correction or endowment fully or control person defined in Section uded from the decision of the Adines of the	(a)(19) of the Act (15 U.S.C. 78c). on 8 of the Investment Company Act of §240.13d-1(b)(1)(ii)(E); and in accordance with §240.13d-1(b)(1) in accordance with §240.13d-1(b)(1) in 3(b) of the Federal Deposit Insurance finition of an investment company unc	(1)(ii)(F); l)(ii)(G);

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### 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.

The Reporting Persons beneficially own a total of 5,408,728 shares of Common Stock held by the Master Fund to which Perceptive Advisors LLC serves as the investment manager. Mr. Edelman is the managing

member of Perceptive Advisors LLC.

(b) Percent of class: The beneficial ownership of 11.93% is based on the Issuer's 45,333,790. outstanding shares of Common

Stock as disclosed on the Issuer's Form 10-Q filed with the SEC on November 2, 2016.

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

(i) Sole power to vote or to direct the vote:
 (ii) Shared power to vote or to direct the vote:
 (iii) Sole power to dispose or to direct the disposition of:

(iv) Shared power to dispose or to direct the disposition of: 5,408,728

### 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:  $\Box$ .

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

The Master 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.

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### 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) with respect to Perceptive Advisors LLC:

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.

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Joseph Edelman:

(b) By signing below I certify that, to the best of my knowledge and belief, the securities referred to above 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.

The following certification shall be included if the statement is filed pursuant to §240.13d-1(c) with respect to Perceptive Life Sciences Master Fund Ltd:

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.

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#### **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, 2017

Date

PERCEPTIVE ADVISORS LLC

/s/ Joseph Edelman

Signature

Joseph Edelman/Managing Member

Name/Title

February 14, 2017

Date

PERCEPTIVE LIFE SCIENCES MASTER FUND LTD

/s/ Joseph Edelman

Signature

Joseph Edelman/Managing Member

February 14, 2017

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)