FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL					
OMB Number:	3235-0287				
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

Filed pursuant to Section 16/a) of the Securities Exchange Act of 1934

			Tiled							t Company A			_								
Name and Address of Reporting Person* PERCEPTIVE ADVISORS LLC			2. Issuer Name and Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC ACRX								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director X 10% Owner										
(Last) (First) (Middle) 51 ASTOR PLACE, 10TH FLOOR				3. Date of Earliest Transaction (Month/Day/Year) 09/28/2016								Officer (give title Other (specify below) below)						specify			
51 ASTC	JR PLACE,	101H FLOOR		4. If A	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable							
(Street) NEW YORK NY 10003 (City) (State) (Zip)				Line) Form filed by One Reporting Person X Person																	
(=,)			e I - Non-Deriv	ative S	Sec	uritie	s Acc	auir	ed	Disposed	of or	Benefi	cia	ally Own	ed be						
1. Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year	2A. Deemed Execution Date,		3. Transaction Code (Instr.			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 at 5)			5. Amount of Securities Beneficially Owned		6. Ownership Form: Direct (D) or Indirect (I)		7. Nature of Indirect Beneficial Ownership						
							Cod	de	v	Amount	(A) or (D)	r Price		Following Reported Transactio (Instr. 3 an	on(s)		4) (Instr.		. 4)		
Common	Stock		09/28/2016				S	S		119,300	D	\$3.959	5,483		,610		See Footnotes ⁽¹⁾		notes(1)(2)		
Common	Common Stock 09		09/29/2016			5	S		97,200	D	D \$3.8798		5,386,410		I		See Footnotes ⁽¹⁾⁽²⁾				
		Та	ble II - Derivat							isposed of s, convert				y Owned							
1. Title of Derivative Security (Instr. 3)	erivative Conversion Date ecurity or Exercise (Month/Day/Year)		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr.		5. Nu of Deriv Secu Acqu (A) o Disp of (D	mber 6. Date Expirat (Month. irities ired r. cosed) . 3, 4		Date E	Exercisable an on Date Day/Year)	7. Ti Amo Secu Und Deri Secu	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of derive Security (Instr. 5) Separation Security Security		rities Form ficially Direct d or In wing (I) (In rted 4) saction(s)		ship (D) irect	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Dat Exe	e ercisa	Expiratio	on Title	Amou or Numb of Share	er								
		f Reporting Person																			
(Last) 51 ASTO		(First) 10TH FLOOR	(Middle)																		
(Street) NEW YO	ORK	NY	10003																		
(City)		(State)	(Zip)		1																

1. Name and Address of Reporting Person* <u>EDELMAN JOSEPH</u>								
(Last)	(First)	(Middle)						
C/O PERCEPTIVE ADVISORS LLC 51 ASTOR PLACE, 10TH FLOOR								
(Street) NEW YORK	NIV	10003						
NEW YORK	NY	10003						
(City)	(State)	(Zip)						
1. Name and Address of Reporting Person* PERCEPTIVE LIFE SCIENCES MASTER FUND LTD								
(Last)	(First)	(Middle)						
C/O PERCEPTIVE ADVISORS LLC								
51 ASTOR PLACE, 10TH FLOOR								
(Street)								
NEW YORK	NY	10003						
(City)	(State)	(Zip)						

Explanation of Responses:

- 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 the investment manager of Master Fund and to a managed account (the "Managed Account") for Titan Perc, Ltd. Mr. Edelman is the managing member of the Advisor.
- 2. This amount reflects the amount of securities held by the Master Fund and the Managed Account 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 Master Fund and the Managed Account 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 Perceptive 09/30/2016 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 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).

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.

Information Regarding Joint Filers

Designated Filer of Form 4: Perceptive Advisors LLC

Date of Earliest Transaction Required to be Reported: September 28, 2016

Issuer Name and Ticker Symbol: AcelRX Pharmaceuticals, Inc. (ACRX)

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

Address: Perceptive Advisors LLC

51 Astor Place, 10th Floor New York, NY 10003

Signatures:

The undersigned, Perceptive Life Sciences Master Fund Ltd. and Joseph Edelman, are jointly filing the attached Statement of Changes in Beneficial Ownership of Securities on Form 4 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

Joseph Edelman, managing member

JOSEPH EDELMAN

By: <u>/s/ Joseph Edelman</u> Joseph Edelman