FORM	4
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. *See* Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

OMB APPROVAL

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## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

			2. Issuer Name <b>and</b> Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC [ACRX]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
(Last) (First) (Middle)		TICALS,	3. Date of Earliest Transaction (Month/Day/Year) 06/09/2011	X Director 10% Owr X Officer (give Other title below) title below) Chief Medical Officer				
(Street) REDWOOD CITY	СА	94063	4. If Amendment, Date of Original Filed (Month/Day/Year)	(Che X Fo	dividual or Joint/G ck Applicable Line orm filed by One R	) eporting Person		
(City)	(State)	(Zip)			orm filed by More t eporting Person	han One		

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. Transac Code (Instr. 8)			spos	Acquired ed of (D) nd 5)	Securities Beneficially Owned	7. Nature of Indirect Beneficial Ownership			
			Code	v	Amount	(A) or (D)	Price	Following Reported Transaction(s) (Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)		
Common Stock	06/09/2011		Р		8,800	Α	\$ 4.61 <sup>(1)</sup>	326,394	D			

	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. Transac Code (Instr. 8	5. Number of Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

## **Explanation of Responses:**

1. The price reported in Column 4 is a weighted average price. These shares were bought in multiple transactions at prices ranging from \$4.49-\$4.74, inclusive. The reporting person undertakes to provide to Acelrx Pharmaceuticals, Inc., any security holder of Acelrx Pharmaceuticals, Inc., or the staff of the Securities and Exchange Comission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in this footnote.

/s/ Carter J. King, Attorneyin-fact \*\* 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.