FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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, 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:	3235-0287							
Expires:	December 31, 2014							
Estimated average burden								
hours per response	0.5							

1. Name and Address of Reporting Person* KING RICHARD			2. Issuer Name and Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC [ACRX]	5. Relationship of Reporting Person(s) to Issuer				
(Last) C/O ACELRX INC., 575 CH			3. Date of Earliest Transaction (Month/Day/Year) 06/09/2011	X	ock all applicable) Director Officer (give title below) Chief Executiv	10% Owner Other (specify below) ve Officer		
(Street) REDWOOD CITY (City)	CA (State)	94063 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	roup Filing) 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)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
			Code	V	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)				
Common Stock	06/09/2011		Р		3,500	Α	\$ 4.56 (1)	126,957	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		Amount of		8. Price of 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 \$4.54-\$4.58, 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.

<u>/s/ Carter J. King, Attorney-in-fact</u> <u>06/13/2011</u>

** 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

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