

OMB APPROVAL	
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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).

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

1. Name and Address of Reporting Person * EDWARDS MARK G (Last) (First) (Middle) C/O ACELRX PHARMACEUTICALS, INC., 351 GALVESTON DRIVE (Street) REDWOOD CITY CA 94063 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC [ACRX]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 03/07/2014	
4. If Amendment, Date of Original Filed (Month/Day/Year)		(This field is currently empty)

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. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	03/07/2014	03/07/2014	A		11,666	A	\$ 3.25	71,666	D	
Common Stock	03/07/2014	03/07/2014	A		9,375	A	\$ 3.11	81,041	D	
Common Stock	03/07/2014	03/07/2014	D		21,041	D	\$ 12.1494 ⁽¹⁾	60,000	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. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		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				
Stock Option (Right to Buy) (2)	\$ 3.25	09/26/2011		D		11,666		10/26/2011 ⁽³⁾	09/25/2021	Common Stock	11,666	\$ 0	3,334	D	
Stock Option (Right to Buy) (2)	\$ 3.11	07/24/2012		D		9,375		08/24/2012 ⁽⁴⁾	07/23/2022	Common Stock	9,375	\$ 0	3,125	D	

Explanation of Responses:

- This is a weighted average price. Shares were sold between the range of \$11.87-\$12.95.
- Issued pursuant to the 2011 Equity Incentive Plan.
- The shares subject to the option vest as follows: 1/36th of the shares subject to the option vest per month on an equal monthly basis over a three-year period beginning 10/26/2011. Full acceleration upon Change of Control.
- The shares subject to the option vest as follows: 1/24th of the shares subject to the option vest per month on an equal monthly basis over a two-year period beginning 8/24/2012. Full acceleration upon Change of Control.

/s/ Christopher Whitmore, 03/11/2014
Attorney-in-fact

** Signature of Reporting Date
Person

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.

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