SCHRECK THOMAS A

Form 4

February 18, 2011

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

OMB

OMB APPROVAL

3235-0287 Number:

January 31, Expires: 2005

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SECURITIES

obligations may continue. See Instruction

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(b).

(Print or Type Responses)

1. Name and Address of Reporting Person * SCHRECK THOMAS A

2. Issuer Name and Ticker or Trading

Symbol

5. Relationship of Reporting Person(s) to Issuer

ACELRX PHARMACEUTICALS

INC [ACRX]

(Check all applicable)

3. Date of Earliest Transaction

(Month/Day/Year) 02/16/2011

Officer (give title below)

X_ Director

10% Owner Other (specify

C/O ACELRX

(Last)

PHARMACEUTICALS INC, 575 CHESAPEAKE DRIVE

(Street)

(First)

(Middle)

4. If Amendment, Date Original

6. Individual or Joint/Group Filing(Check

Applicable Line)

Filed(Month/Day/Year)

X Form filed by One Reporting Person Form filed by More than One Reporting

REDWOOD CITY, CA 94063

(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of

Security (Month/Day/Year) Execution Date, if (Instr. 3) (Month/Day/Year)

Transaction(A) or Disposed of Code (D) (Instr. 8) (Instr. 3, 4 and 5)

Securities Beneficially Owned Following Reported

Form: Direct Indirect (D) or Beneficial Indirect (I) Ownership (Instr. 4) (Instr. 4)

(A) Transaction(s) (Instr. 3 and 4) Code V Price Amount (D)

Common 02/16/2011 \mathbf{C} D 41,800 (1) 41,800 Stock

See Common 02/16/2011 \mathbf{C} I Footnote 13.932 A (2)13,932 Stock (3)

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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number.

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. Transacti Code (Instr. 8)	5. Number of orDerivative 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)	
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Series A Convertible Preferred Stock	<u>(1)</u>	02/16/2011		С	30,605	<u>(4)</u>	<u>(5)</u>	Common Stock	41,800
Series A Convertible Preferred Stock	<u>(2)</u>	02/16/2011		С	10,201	<u>(4)</u>	<u>(5)</u>	Common Stock	13,932

Reporting Owners

Reporting Owner Name / Address

Director 10% Owner Officer Other

Date

SCHRECK THOMAS A C/O ACELRX PHARMACEUTICALS INC 575 CHESAPEAKE DRIVE REDWOOD CITY, CA 94063



Signatures

/s/ Carter King, Attorney-in-fact 02/18/2011

**Signature of Reporting Person

Explanation of Responses:

- * 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).
- (1) The shares reflect the automatic conversion of 30,605 shares of the Issuer's Series A Preferred Stock for 41,800 shares of the Issuer's Common Stock immediately prior to the closing of the Issuer's initial public offering.
- (2) The shares reflect the automatic conversion of 10,201 shares of the Issuer's Series A Preferred Stock for 13,932 shares of the Issuer's Common Stock immediately prior to the closing of the Issuer's initial public offering.
- (3) The shares are held in trust for Mr. Schreck's children. Mr. Schreck disclaims beneficial ownership of the shares.

Reporting Owners 2

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- (4) Immediately convertible into shares of the Issuer's common stock.
- (5) These shares have no expiration date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential 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 number.