

Palmer Pamela P  
Form 4  
March 04, 2011

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
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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 OF SECURITIES**

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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
Palmer Pamela P

2. Issuer Name and Ticker or Trading Symbol  
ACELRX PHARMACEUTICALS INC [ACRX]

5. Relationship of Reporting Person(s) to Issuer  
  
(Check all applicable)  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Chief Medical Officer

(Last) (First) (Middle)  
C/O ACELRX  
PHARMACEUTICALS, INC., 575  
CHESAPEAKE DRIVE  
  
(Street)

3. Date of Earliest Transaction  
(Month/Day/Year)  
03/02/2011

REDWOOD CITY, CA 94063  
  
(City) (State) (Zip)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**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 Ownership (Instr. 4)
				(A) or (D)	Amount (D) Price		
Common Stock <sup>(1)</sup>	03/02/2011		A	67,594 A	\$ 0 317,594	D	

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

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SEC 1474 (9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

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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 Security (Instr. 3 and 4)	Amount or Number of Shares
Stock Option (Right to Buy) <sup>(1)</sup>	\$ 3.45	03/02/2011		A	75,000	03/02/2012 <sup>(2)(3)</sup> 03/01/2021	Common Stock	75,000
Stock Option (Right to Buy) <sup>(1)</sup>	\$ 3.45	03/02/2011		A	25,000	03/02/2012 <sup>(2)(3)</sup> 03/01/2021	Common Stock	25,000

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Palmer Pamela P C/O ACELRX PHARMACEUTICALS, INC. 575 CHESAPEAKE DRIVE REDWOOD CITY, CA 94063	X		Chief Medical Officer	

## Signatures

/s/ James Welch,  
Attorney-in-fact  
Date: 03/04/2011

\*\*Signature of Reporting Person

Date

## 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) Issued pursuant to the 2011 Equity Incentive Plan.

The shares subject to the option vest as follows: 25% of the shares subject to the option vest on the 12 month anniversary of the Vesting

(2) Commencement Date (March 2, 2011) and the remaining shares subject to the stock option vest on an equal monthly basis over the following 36 months.

(3) The shares have double-trigger acceleration on a change of control.

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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