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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name ar	ACI	2. Issuer Name and Ticker or Trading Symbol ACELRX PHARMACEUTICALS INC [ACRX]										all applicable) Director		ng Pe	Person(s) to Issuer 10% Owner Other (specif					
(Last)	,	(First) (Middle) PHARMACEUTICALS, INC.					3. Date of Earliest Transaction (Month/Day/Year) 03/02/2012									belov	Officer (give title below) Chief Developm		below)	
575 CHESAPEAKE DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) REDWO	REDWOOD CA 94063														X	Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(Sta	ate) (Z	ľip)																	
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/						Execution Date,			3. Transaction Code (Instr. 8) 4. Securities Acquired Disposed Of (D) (Instr. and 5)						3, 4 Se Be		ecurities eneficially vned		wnership n: Direct or rect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
								Code	v	Amount		(A) or (D)		,	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)		(111501. 4)	
Common Stock 03/0					012				F		1,717	(1)	D	\$2.91		13,643			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)	ative Conversion Date Execution Date, rity or Exercise (Month/Day/Year) if any		tion Date,	4. Transaction Code (Instr. 8)		of Deriv Secur Acqu (A) or Dispo	r osed) ·. 3, 4	6. Date E Expiratio (Month/D	n Da	e Amount of		ount	ut or		9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		0. Ownership orm: Ownered (D) or Indirect I) (Instr.)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

Explanation of Responses:

1. The shares were withheld to satisfy tax liability upon vesting 25% of the restricted shares of Common Stock of the Company, previously reported on March 4, 2011.

/s/ James Welch, Attorney-infact 03/06/2012

** 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.