FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									

0.5

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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).

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

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1. Name and Address of Reporting Person* FLYNN MATTHEW P						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									Check all ap	pplicable) ector		ssuer Owner (specify
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 02/10/2012									^ belo	Officer (give title Other (s below) EVP, Customer Operations		<i>I</i>)
108 CHERRY HILL DRIVE				4. If	If Amendment, Date of Original Filed (Month/Day/Year)							6	6. Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERLY MA 01915													For	,				
(City)	(St	ate) (Zip)												1 61	3011		
		Tabl	e I - No	n-Deriv	ative	Se	curiti	es Ac	quire	l, Dis	sposed o	f, or	Bene	eficia	ally Own	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)					nd Secu Bene Owne	ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
									Code	v	Amount	(A (I	A) or D)	Price	Repo Trans (Insti	rted action(s) . 3 and 4)		(Instr. 4)
Common Stock 02/10/2					2012		S		14,00	0	D	\$1	.7	60,527	D			
Common Stock 02/13/2					2012		S		15,00	0	D	\$1.	66	45,527	D			
		Та									osed of, convertib				y Owned	i		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transactio Code (Inst				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Code		v	(A)	(D)	Date Exercis	able	Expiration Date	Title	Nun of Sha								

Explanation of Responses:

Lynnette C. Fallon, as attorney in fact for Matthew P. Flynn

02/14/2012

** 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.