FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFICI	AL OWNERSHIP

l	OIVIB APPROVAL										
	OMB Number:	3235-0287									
l	Estimated average burde	n									
l	hours per response:	0.5									

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

1. Name and Address of Reporting Person* FLYNN MATTHEW P (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE (Street) BEVERLY MA 01915				3 0	2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] 3. Date of Earliest Transaction (Month/Day/Year) 07/15/2011 4. If Amendment, Date of Original Filed (Month/Day/Year)						[] (Ch	5. Relationship of Reporting Person(s) to Issuer Check all applicable) Director 10% Owner X Officer (give title Other (specify below) EVP, Customer Operations 5. Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting				ner pecify cable	
(City)	(S	itate)	(Zip)		Person												
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
Date				. Transacti Pate Month/Day	Execution Date,		Code (Instr.		ed (A) or tr. 3, 4 and !	5. Amount Securities Beneficial Owned For Reported	ly (Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership			
								Code	v	Amount	(A) oi (D)	Price	Transactio (Instr. 3 ar	on(s)		"	nstr. 4)
	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)	Code (Transaction Code (Instr.		Derivative		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative Security	9. Number of derivative Securities Beneficially Owned Following Reported	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)		Date Exercisable		Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)	ni(S)		
Stock option (right to buy)	\$1.6	07/15/2011		A ⁽¹⁾		150,000		07/15/2015 ⁽	(2)	07/15/2021	Common Stock	150,000	\$0	150,000	0	D	

Explanation of Responses:

- 1. Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- $2.\ To\ become\ exercisable\ as\ to\ 25\%\ of\ the\ shares\ on\ each\ of\ 7/15/2012,\ 7/15/2013,\ 7/15/2014\ and\ 7/15/2015.$

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Matthew P. Flynn</u>

07/18/2011

** Signature of Reporting Person

Date

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

- * 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.