FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFIC	CIAL OWNERS	HIP

l	OIVIB APPROVAL									
l	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* FALLON LYNNETTE C					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]] (Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify				ner
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 07/15/2011					X	X Officer (give title below) Executive VP, HR/Legal				Cony	
(Street) BEVERLY MA 01915 (City) (State) (Zip) 4. If Amendment, Date of Original Filed (I							d (Month/Da	y/Year)	6. Inc Line)	Form fil	ed by One	Repor	(Check Appli ting Person One Reporti			
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																
1. Title of Security (Instr. 3) 2. Trans: Date (Month/I			е	Execution I Day/Year) if any		xecution Date, Tr		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4)			5. Amount Securities Beneficial Owned Fo	Form (D) or ollowing (I) (In		n: Direct I r Indirect E istr. 4) (7. Nature of ndirect Beneficial Dwnership	
								Code V	Amount	(A) or (D)	Price	Reported Transaction (Instr. 3 ar				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)	rivative Conversion Date Execution Date, Traccurity or Exercise (Month/Day/Year) if any Co		Transa Code (nsaction Derivative		Expiration Date o (Month/Day/Year) U		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	лцэ)		
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</u> 07/18/2011

** 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.