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 h	hurden									

0.5

hours per response:

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]								Check a	ıll appl Direct	licable) tor	g Person(s) to I	wner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 07/01/2009								X	Officer (give title below) Executive		Other (specify below) TP, HR/Legal			
108 CHERRY HILL DRIVE					_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERLY MA 01915												Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person							
(City)	(St	ate) (Zip)												1 0130	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		Tabl	e I - N	lon-Deriv	/ative	Sec	uritie	s Ac	quire	d, Di	sposed o	f, or B	enefic	ally O	wne	d			
1. Title of Security (Instr. 3) 2. Transaction Date (Month/Day/N					Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A) o Disposed Of (D) (Instr. 3, 4 a				nd 5) Secu Bene Own		cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
								Code	v	Amount	(A) or (D)	Price	- 1	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 07/01/200					2009	009		F		9,882	D ⁽¹⁾	\$0.45	\$0.4532(2)		0,996	D			
Common Stock 07/03/200				2009	009		F		8,069	D ⁽³⁾	\$0.39(4)		142,927 ⁽⁵⁾		D				
		Та	ble II								osed of, convertib				ned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execut if any	Execution Date, if any		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		e Exerc tion D h/Day/		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Prio Deriva Secur (Instr.	itive ity 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 Exerci	sable	Expiration Date	Title	Amount or Number of Shares						

Explanation of Responses:

- 1. Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- 2. Represents the closing price of the common stock at July 1, 2009.
- 3. Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- 4. Represents the closing price of the common stock at July 6, 2009 (the first trading day after the vesting date).
- 5. Of the shares held as of July 3, 2009, 58,162 were issuable on vesting of restricted stock units granted the executive under the 2000 Stock Plan and are subject to forfeiture. A portion of these shares will be withheld by the Company on vesting to satisfy tax withholding requirements.

<u>Lynnette C. Fallon</u> <u>07/06/2009</u>

** 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.