FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

3

STATEMENT	OF CHANGE	S IN BENEFICIA	AL OWNERSHIF

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
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]									Check	all app	licable)		Issuer Owner r (specify	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 11/12/2008									X	belov			v) .	
(Street) BEVERI (City)	.Y M	Α (01915 (Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indivine) X	,				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acq Disposed Of (D) (cquired (A) or)) (Instr. 3, 4 and		nd 5) Securi Benefi		ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)				
		Code	v	Amount				(A) or (D)	Price	Trai		action(s) 3 and 4)		(11341.4)						
Common Stock 11/12/2					2008		P		3,000 A		A	\$0.5	739	739 160,878(1)		D				
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																				
Derivative Conversion Date Execution Date, or Exercise (Month/Day/Year) if any			ansaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe		nstr. 3	nt		derivative Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)						
				- [,	Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of e Sh	ares						

Explanation of Responses:

1. Of the shares held as of November 12, 2008, 114,703 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.

Lynnette C. Fallon

11/12/2008

** 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.