FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL									
	OMB Number:	3235-0287								
l	Estimated average burden									
l	hours per response:	0.5								

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]										o of Reporting dicable) tor er (give title v)		6 Owner er (specify	vner
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 11/06/2008										Executive VP, HR/Legal				
(Street) BEVERLY MA 01915 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne)	Form	or Joint/Group Filing (Check Applicable m filed by One Reporting Person m filed by More than One Reporting son			
		Tabl	e I - No	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Ben	eficia	ally O	wne	ed			٦
Date				Date	e nth/Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4				4 and 5) Sec Ber Ow		ount of ties cially I Following	6. Ownershi Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownershi	7. Nature of Indirect Beneficial Ownership (Instr. 4)
		Code	v	Amount					(A) or (D)		Price	1	Reported Transaction(s) (Instr. 3 and 4)			(11301. 4)				
Common Stock 11/06/2											3,000		A	\$0.51		152,878		D		
Common Stock 11/06/2							2008		P		3,000		A	\$0.5154		155,878		D		
Common Stock 11/06/2						2008					2,000		A	\$0.5155		5 157,878 ⁽¹⁾		D		
		Та									sed of, onvertib				y Owi	ned				
1. Title of Derivative Security (Instr. 3)	e Conversion or Exercise Price of Derivative Security Date (Month/Day/Year) Date (Month/Day/Year) Execution Date, if any (Month/Day/Year) Roughless (Month/Day/Year) Security		Transa Code (Instr.		rities lired r osed) r. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of		ount	8. Pric Deriva Securi (Instr.	tive ty	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indirect (I) (Instr.	Beneficial Ownershi tt (Instr. 4)	t I		

Explanation of Responses:

1. Of the shares held as of November 6, 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.

11/07/2008 Lynnette C. Fallon

** Signature of Reporting Person

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.