FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-028								
1 –									

OMB Number: 3235-0287
Estimated average burden
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 ]										all app	olicable)	g Person(s) to I 10% ( Other		
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 06/30/2004									Λ	belov	elow) I Senior VP, HR/Leg		)`	
(Street) BEVERLY MA 01915				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
(City)	(St	ate) (	Zip)													1 013	011		
		Tabl	e I - Nor	n-Deriv	ative	Se	curitie	s Ac	quired	, Dis	posed o	f, or	Ben	eficia	ally (	Owne	ed		
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				eay/Year)   Execu		Execution f any	a. Deemed recution Date, any lonth/Day/Year)	Code	Transaction Dis Code (Instr. 5)		ecurities Acquired (A) posed Of (D) (Instr. 3,			nd	5. Amount of Securities Beneficially Owned Following Reported		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		Transaction(s) (Instr. 3 and 4)			(111341.4)			
Common Stock 06				06/30	06/30/2004				J <sup>(1)</sup>	V	1,500	)	A \$4.		.956 7,033.1		,033.1	D	
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 Date (Month/Day/Year) Frice of Derivative Security  3. Transaction Date Execution if any (Month/Day/Year) (Month/Day/Year)			Date,	4. Transaction Code (Instr. 8)			ative rities ired osed	6. Date I Expirati (Month//	on Dat		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe		ount			9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

## **Explanation of Responses:**

1. Purchased under the Axcelis Technologies, Inc. Employee Stock Purchase Plan, qualified under I.R.C. Section 423.

<u>Lynnette C. Fallon</u> <u>07/02/2004</u>

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.