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 burd	len								
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

(Last)	Name and Address of Reporting Person* ALLON LYNNETTE C ast) (First) (Middle) O AXCELIS TECHNOLOGIES, INC.						Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS] Indeed of Earliest Transaction (Month/Day/Year) 02/07/2012									all app Direct Office below	er (give title	10 ⁰ Oth	% Owner ner (specify pow)
(Street) BEVERLY MA 01915 (City) (State) (Zip)				_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									. Indivi ine) X	·				
		Tabl	e I - No	n-Deriv	ative	Se	curitie	es Ac	quired	, Dis	posed o	f, or	Ben	eficia	ally (Owne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,		Transaction Dispose Code (Instr.			ities Acquired (A) or d Of (D) (Instr. 3, 4 a			and 5) Secur Benef		cially d Following	6. Ownershi Form: Direc (D) or Indire (I) (Instr. 4)	of Indirect	
							v	Amount		(A) or (D)	Price	Trans		action(s) 3 and 4)		(,			
Common Stock 02/07/2							2012		S		14,833.71		D	\$1.79		118,533		D	
Common Stock 02/07/2						2012		S		2,600		D	\$1.78		115,933		D		
Common Stock 02/07/2					//2012	2012		S		2,567		D	\$1.77		113,366		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)			n Date,	4. Transaction Code (Instr. 8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expirati (Month)	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Date Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amount or Numbe of Title Shares		nt er		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.	Beneficial Ownership ct (Instr. 4)	

Explanation of Responses:

Lynnette C. Fallon

02/07/2012

** 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.