FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPRO	OVAL						
OMB Number:	3235-0287						
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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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	d Address of PSON H		2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]											p of Reporting F plicable) ctor	Person(s) to Is			
(Last) C/O AXC		3. Date of Earliest Transaction (Month/Day/Year) 08/09/2013										Offic belo	er (give title w)	Other (below)	(specify			
108 CHERRY HILL DRIVE (Street) BEVERLY MA 01915 (City) (State) (Zip)				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				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)			3. Transaction Code (Instr. 8)		4. Securities Acquire Disposed Of (D) (Instand 5)			str. 3, 4 Se Be Ov Fo		5. Amount of Securities Beneficially Owned Following			7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amoun		A) or D)	Price	Tra	Reported Transaction (Instr. 3 and				
Common	Stock	08/09/2013				P		5,00	0	A	\$1.87	,	89,185		D			
Common	08/12/2013				P		5,00	0	Α	\$1.96	5	94,185		D				
Common Stock 08/13/2013							P		10,00	00	Α	\$1.99)	104,18	5	D		
Common Stock														20,000		I	Shares held by Universal Telecommunications, Inc.	
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)	erivative Conversion Date curity or Exercise (Month/Day/Year)		3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expi	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Ins and 4)		Derivativ Security (Instr. 5)			10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	,	(A)	(D)	Date	e rcisable	Expira:	tion		Amour or Number of Shares	mber				

Explanation of Responses:

<u>Lynnette C. Fallon, as attorney</u> <u>inf act for H. Brian Thompson</u>

08/13/2013

** 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.