FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	ONID APPRO	VAL				
l	OMB Number:	3235-0287				
l	Estimated average burde	en				
1	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

Name and Address of Reporting Person* ZAGER JAY					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								eck all application	tionship of Reporting all applicable) Director Officer (give title		10% Ov	/ner
(Last) (First) (Middle) 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 07/16/2012								X below)	-	Other (sp below) and EVP		респу
(Street) BEVERI (City)		IA State)	01915 (Zip)		4. If Amendment, Date of Original Filed (Month/Day/Year)						Lin	e) X Form fil Form fil	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																	
Date			2. Transac Date (Month/Da	Execution Date		Code (Instr.		ties Acquii I Of (D) (In:	ed (A) or str. 3, 4 and	5. Amoun Securities Beneficia Owned Fo	ily	Form: (D) or	: Direct I Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	Code V Amount (A) or (D)				Transacti	Transaction(s) (Instr. 3 and 4)			(III30. 4)
	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 or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, Transaction Derivative		re s I (A) sed str.	6. Date Exercisable and Expiration Date (Month/Day/Year) 7. Title and Amo of Securities Underlying Derivative Secu (Instr. 3 and 4)				ities ng e Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
				Code V (A) (D) Exercisable Date Title of Shares					on(s)								
Stock option (right to buy)	\$0.93	07/16/2012		A ⁽¹⁾		150,000		07/16/20	16 ⁽²⁾	07/16/2019	Common Stock	150,000	\$0	150,00	00	D	

Explanation of Responses:

- 1. Granted pursuant to the Axcelis Technologies, Inc. 2012 Equity Incentive Plan.
- $2.\ To\ become\ exercisable\ as\ to\ 25\%\ of\ the\ shares\ granted\ on\ each\ of\ 7/16/2013,\ 7/16/2014,\ 7/16/2015\ and\ 7/16/2016.$

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Jay Zager</u>

07/17/2012

** 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.

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