FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden 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* JENNINGS WILLIAM C						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
						ACI	1110 1		подос	<u> </u>	<i>)</i> 11 (C	2 [MCLC	, ı	X Direc	tor		10% Ow	ner	
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.						3. Date of Earliest Transaction (Month/Day/Year) 07/15/2013								Office below	er (give title /)		Other (s below)	pecify	
108 CHERRY HILL DRIVE						4. If Amendment, Date of Original Filed (Month/Day/Year)								Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERLY MA 0		01915			Line							X Form	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(Si	tate)	(Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						ear) i	2A. Deeme Execution if any (Month/Da	Date,	Code (Ins	Transaction Disposed Code (Instr. 5)		ties Acquired (A) or d Of (D) (Instr. 3, 4 a		Benefi	ies ially Following	Form (D) o	n: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code V	Ar	mount	(A) or (D)	Price	Transa	Transaction(s) (Instr. 3 and 4)			msu. 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)	3A. Deemed Execution Day if any (Month/Day/	ate, T	Code (In				6. Date Exer Expiration D (Month/Day/\)	ite		7. Title and Amoun of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price o Derivative Security (Instr. 5)		e s Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisable	Expir Date	ration	Title	Amount or Number of Shares						
Stock option (right to buy)	\$1.99	07/15/2013			A ⁽¹⁾		40,000		01/12/2014	07/15	5/2020	Common Stock	40,000	\$0	40,00	0	D		

Explanation of Responses:

1. Granted pursuant to the Axcelis Technologies, Inc. 2012 Equity Incentive Plan.

Lynnette C. Fallon, as attorney in fact for William C. Jennings

07/16/2013

** 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.