FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGES	IN BENEFICIAL	OWNERSHIP

OMB APPROVAL OMB Number: 3235-0287 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* BREWER KEVIN J					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]							[(Ch	eck all application	able)			Souer Owner Or (specify
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					3. Date of Earliest Transaction (Month/Day/Year) 07/15/2014							below)	the Chief Financial Officer		.		
108 CHERRY HILL DRIVE				4	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable					
(Street) BEVERI	LY M	IA	01915	_						Line	Form filed by One Reporting Person Form filed by More than One Reporting Person						
(City)	(S	state)	(Zip)														
		Та	ble I - Non-D	erivati	ive S	ecuritie	s Ac	quire	l, Di	sposed o	f, or Be	neficiall	/ Owned				
1. Title of Security (Instr. 3) 2. Transc Date (Month/E			te	Execution Date,		Code (Instr.		ed (A) or tr. 3, 4 and	Beneficia Owned Fo	Forn ly (D) o		Direct Indirect B	7. Nature of ndirect Seneficial Ownership				
							Cod	y V	Amount	(A) o (D)	r Price	Reported Transaction (Instr. 3 and			"	Instr. 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 Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)		Date Exercisa	ıble	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)	on(s)	<u>'</u>	
Stock option (right to buy)	\$1.8	07/15/2014		A ⁽¹⁾		225,000		07/15/20	18(2)	07/15/2021	Common Stock	225,000	\$0	225,00	00	D	

Explanation of Responses:

- 1. Granted pursuant to the Axcelis Technologies, Inc. 2012 Equity Incentive Plan.
- 2. These options will vest as to 25% of the shares on each of July 15, 2015, July 15, 2016, July 15, 2017 and July 15, 2018, if the officer remains in the service of the Company on such vesting date.

Lynnette C. Fallon, as attorney 07/16/2014 in fact for Kevin J. Brewer

** 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.