SEC I	Form 4
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## 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 OWNERSHI
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

			or Sec	ction 30(h) of the In	vestment Con	pany Act of 1940					
1. Name and Address of Reporting Person* BREWER KEVIN J (Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE				er Name <b>and</b> Ticker ELIS TECHI of Earliest Transac 2011	NOLOĞIİ	E <mark>S INC</mark> [ ACLS ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) below) EVP, Operations				
(Street) BEVERLY (City)	MA (State)	01915 (Zip)	4. If Am	nendment, Date of C	Driginal Filed (	Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Form filed by One Form filed by Mor Person	e Reporting Pers	on	
		Table I - No	n-Derivative S	ecurities Acq	uired, Disp	osed of, or Benefic	ially C	Owned			
1. Title of Security (Instr. 3) 2. Trans Date				2A. Deemed Execution Date,	3. Transaction	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4		5. Amount of Securities	6. Ownership Form: Direct	7. Nature of Indirect	

Date (Month/Day/Year)			ction Instr.				Owned Following	Form: Direct (D) or Indirect (I) (Instr. 4)	Indirect Beneficial Ownership (Instr. 4)	
		Code	v	Amount	(A) or (D)	Price	Reported Transaction(s) (Instr. 3 and 4)		(1150.4)	
										٦.

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)		Derivative		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	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		Transaction(s) (Instr. 4)		
Stock option (right to buy)	\$1.6	07/15/2011		A <sup>(1)</sup>		150,000		07/15/2015 <sup>(2)</sup>	07/15/2021	Common Stock	150,000	\$0	150,000	D	

Explanation of Responses:

1. Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.

2. To become exercisable as to 25% of the shares on each of 7/15/2012, 7/15/2013, 7/15/2014 and 7/15/2015.

Lynnette C. Fallon, as attorney 07/18/2011 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.