FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB A	PPROVAL
OMB Number:	3235-028

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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 S	secu	on 30(n)	or the i	nvestme	ent Co	mpany Act	ot 19	40						
1. Name and Address of Reporting Person* BREWER KEVIN J						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
DICE VV	EIX IXE V I	IIN J												1		irector	10% (
-			Middle)		-			_						\dashv		fficer (give title elow)	Other below	(specify)	
(Last)	(Fi		3. Date of Earliest Transaction (Month/Day/Year) 05/06/2016										,	Financial Offi	,				
C/O AXCELIS TECHNOLOGIES, INC.						03/00/2010									_	VI & Chier	i munciui Oiri	cci	
108 CHERRY HILL DRIVE																			
					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable				
(Street)					1									Li	ne)				
BEVERI	Y M	Α ()1915		1										X F	Form filed by One Reporting Person			
					1										Form filed by More than One Reporting Person				
(City)	/C+	ate) (Zin)		1										-	erson			
(City)	(31	ale) (Zip)																
		Tabl	e I - Non	-Deriva	ative	Se	curitie	s Acc	quired	l, Dis	sposed o	of, o	r Ben	eficia	ally Ov	ned			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		n Disposed				nd See Bei Ow	Amount of curities neficially ned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount		(A) or (D)	Price	Tra	oorted nsaction(s) str. 3 and 4)		(Instr. 4)	
Common Stock 05/06/						/2016					5,000)	A	\$2.	45 86,546		D		
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 Dat if any (Month/Day/Ye	Date,	Code (Insti				6. Date Expirat (Month	ion Da		Ame Sec Und Deri Sec	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price Derivativ Security (Instr. 5)	e derivative	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercis	able	Expiration Date	Title	or Nui of	ount mber ares					

Explanation of Responses:

Remarks:

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for Kevin J. Brewer</u> <u>05/06/2016</u>

** 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.