FORM 4

obligations may cor Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Washington,	D.C.	20549	
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1	OIVID APPROVAL								
	OMB Number:	3235-028							

Check this box if no longer subject to	
Section 16. Form 4 or Form 5	
obligations may continue. See	

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OWID ALT I	(O VAL						
OMB Number:	3235-0287						
Estimated average burden							
hours per response:	0.5						

1. Name and Address of Reporting Person*					2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								k all applica Director	Officer (give title Other (10% Ov	ner		
(Last) (First) (Middle) 108 CHERRY HILL DRIVE					3. Date of Earliest Transaction (Month/Day/Year) 11/17/2008							X	below)			below)	респу		
(Street) BEVERI	LY M	IA	01915	4	4. If Amendment, Date of Original Filed (Month/Day/Year)					6. Ind Line) X	Form file	Joint/Group Filing (Check Applicable filed by One Reporting Person filed by More than One Reporting							
(City)	(S	tate)	(Zip)											Person					
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date			. Transacti ate //onth/Day	Execution Date,		Code (Instr.			4 and 5) Securities Beneficia Owned Fo		Forn (D) o		Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership					
	Code V Amount (A) or (D)					or Pi	rice	Reported Transaction(s) (Instr. 3 and 4)				(Instr. 4)							
			Table II - De							osed of, onvertil				wned	,		,		
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/Yea	Code		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisal Expiration Date (Month/Day/Year		of Securities			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported	e s ully	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
				Code	v	(A)	(D)	Date Exercisab		Expiration Date	Title	Amo or Num of SI			Transaction(s (Instr. 4)		٥)		
Stock option (right to buy)	\$0.7	11/17/2008		A ⁽¹⁾		100,000		11/17/201	2(2)	11/17/2018	Common Stock	100	,000	\$0	100,00	00	D		

Explanation of Responses:

- 1. Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
- $2. \ Exercisable \ as to 25\% \ of the total shares on each of 11/17/2009, 11/17/2010, 11/17/2011 \ and 11/17/2012, provided that the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on one and the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on the common stock closes at or above $4.00 \ per share for 20 \ consecutive trading days on the consecutive trading days$ or more occasions prior to exercise.

Lynnette C. Fallon, as attorney in fact for Craig Halterman

11/18/2008

** 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.