FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPR	OVAL
	OMB Number:	3235-0287
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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(h)

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* <u>Bintz William J</u>						2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]									5. Relationship of Reporting Perso (Check all applicable) Director Officer (give title			10% Owner	
(Last) (First) (Middle) 108 CHERRY HILL DRIVE						3. Date of Earliest Transaction (Month/Day/Year) 11/11/2010									X belo	w) `		Other (specify below) Marketing	
(Street) BEVERI (City))1915 Zip)		- 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	n-Deri\	/ative	Se	curitie	s Acc	quired,	, Dis	posed o	f, or	Ben	efici	ally Own	ed			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						Execution Date,		Transaction Disposed Code (Instr.			ities Acquired (A) or d Of (D) (Instr. 3, 4 a			d 5) Secu Bene	ficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	() ()	A) or O)	Price	Trans	action(s) 3 and 4)		(111311. 4)		
Common Stock 11/11/2					/2010	2010		S		20,000		D	\$2.	68	61,665	D			
Common	Stock			11/12	/2010				F		5,763		D ⁽¹⁾	\$2.6	59 ⁽²⁾ 5				
		Та									osed of, onvertib				y Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	n Date, Transact Code (In					6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nui of	ount mber ires					

Explanation of Responses:

- 1. Shares withheld by the Company equal to tax liability of the executive officer incident to the vesting of restricted stock units issued in accordance with Rule 16b-3.
- 2. Represents the closing price of the common stock at November 12, 2010.
- 3. Of the shares held as of November 12, 2010, 14,455 were issuable on vesting of restricted stock units granted the executive under the 2000 Stock Plan and are subject to forfeiture. A portion of these shares will be withheld by the Company on vesting to satisfy tax withholding requirements.

<u>Lynnette C. Fallon, as attorney</u> <u>in fact for William Bintz</u> <u>11/12/2010</u>

Date

** Signature of Reporting Person

 $Reminder: \ Report \ on \ a \ separate \ line \ for \ each \ class \ of \ securities \ beneficially \ owned \ directly \ or \ indirectly.$

- * 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.