FORM 4

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL
	OMB Number:	3235-0287
l	Estimated average burde	en
l	hours per response:	0.5

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 Section 30(h) of the Investment Company Act of 1940

								` '													
1. Name and Address of Reporting Person* Bintz William J							2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ ACLS ]										III app	nship of Reporting F applicable) Director Officer (give title telow) Senior VP, N		10% C	wner
(Last) (First) (Middle) 108 CHERRY HILL DRIVE							3. Date of Earliest Transaction (Month/Day/Year) 12/16/2010													Other (specify below)  Marketing	
(Street) BEVERLY MA 01915  (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year)										. Individ ine) X	dividual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person				
		Tabl	e I - Nor	n-Deriv	ative	Se	curi	ities	Acq	uired,	Dis	posed o	f, or	Bene	eficia	ally O	wne	ed			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da							Execution Dat			3. Transa Code ( 8)						4 and Se Be Ov		i. Amount of Securities Seneficially Owned Following Reported		Ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	v	Amount	(A (E	() or ()	Price	.  т	ransa	ansaction(s) nstr. 3 and 4)			(msu. 4)			
Common	Stock		5/2010	2010				S		5,165		D	\$3.38		50,737			D			
Common	5/2010	0				S		4,835		D	\$3.37		7 45,902 <sup>(1)</sup>			D					
		Та										sed of, onvertib				y Ow	ned				
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	Date,		ransaction Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Pric Deriva Securi (Instr.	urity	9. Number of derivative Securities Beneficially Owned Following Reported Transaction( (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Co	Code	v	(A			Date Exercisal		Expiration Date	Title	Amo or Nun of Sha							

## **Explanation of Responses:**

1. Of the shares held as of December 16, 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> in fact for William Bintz

\*\* Signature of Reporting Person Date

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

- $^{\star}$  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.