FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL								
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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 Add Bintz Willia	lress of Reporting	2. Date of Event Requiring Stater Month/Day/Yea	ment	3. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								
(Last) 108 CHERRY	(First) HILL DRIVE	(Middle)	09/17/2007			ationship of Reporting Perso c all applicable) Director Officer (give title	on(s) to Issuer 10% Owner Other (specify		5. If Amendment, Date of Original Filed (Month/Day/Year) 09/17/2007			
(Street) BEVERLY (City)	MA (State)	01915 (Zip)				X Onice (give title below) Senior VP, Marl		É	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person			
Table I - Non-Derivative Securities Beneficially Owned												
1. Title of Security (Instr. 4)						ount of Securities icially Owned (Instr. 4) 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		:t (D) (Ir	4. Nature of Indirect Beneficial Ownership (Instr. 5)			
Common Stock						17,365 ⁽¹⁾	D					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)												
1. Title of Derivative Security (Instr. 4)			2. Date Exercisable and Expiration Date (Month/Day/Year)		d 3. Title and Amount of Securities Underlying Derivative Security (In			4. Conversion Exerc	ion ise	5. Ownership Form:	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
			Date Exercisable	Expiration Date	Amount or Number		Price of Derivativ Security	/e	Direct (D) or Indirect (I) (Instr. 5)			
Right to Buy (Stock Option)		01/03/2010 ⁽²⁾	01/03/2016	6	Common Stock	17,000	4.78		D		
Right to Buy (Stock Option)		05/15/2011 ⁽³⁾	05/15/2017	7	Common Stock	5,000	6.39		D		

Explanation of Responses:

- 1. Of the shares held as of 9/17/2007, 16,000 were issuable on vesting of restricted stock units granted to the executive under the Company's 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.
- $2. \ Exercisable \ as \ to \ 25\% \ of \ the \ shares \ on \ each \ of \ 01/03/2007, \ 01/03/2008, \ 01/03/2009 \ and \ 01/03/2010.$
- 3. Exercisable as to 25% of the shares on each of 05/15/2008, 05/15/2009, 05/15/2010 and 05/15/2011.

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

** Signature of Reporting Person Date

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

- * If the form is filed by more than one reporting person, see Instruction 5 (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.

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