AXCELIS TECHNOLOGIES INC

Form 3

September 17, 2007

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF

SECURITIES

30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement AXCELIS TECHNOLOGIES INC [ACLS] Bintz William J (Month/Day/Year) 09/17/2007 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) 108 CHERRY HILL DRIVE (Check all applicable) (Street) 6. Individual or Joint/Group Filing(Check Applicable Line) 10% Owner Director _X_ Form filed by One Reporting _X__ Officer Other Person BEVERLY, MAÂ 01915 (give title below) (specify below) Form filed by More than One Senior VP, Marketing Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 2. Amount of Securities 4. Nature of Indirect Beneficial 1. Title of Security Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) Form: (Instr. 5) Direct (D) or Indirect (I) (Instr. 5) Common Stock D Â $8,000^{(1)}$ Â Common Stock 10,000 (2) D Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. Persons who respond to the collection of information contained in this form are not

Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

required to respond unless the form displays a

currently valid OMB control number.

1. Title of Derivative	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
Security	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial
(Instr. 4)	(Month/Day/Year)	Derivative Security	or Exercise	Form of	Ownership
		(Instr. 4)	Price of	Derivative	(Instr. 5)
			Derivative	Security:	

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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Right to Buy (Stock Option)	01/03/2010(3)	01/03/2016	Common Stock	17,000	\$ 4.78	D	Â
Right to Buy (Stock Option)	05/15/2011(4)	05/15/2017	Common Stock	5,000	\$ 6.39	D	Â

Reporting Owners

Reporting Owner Name / Address	Relationships				
1 8	Director	10% Owner	Officer	Other	
Bintz William J 108 CHERRY HILL DRIVE BEVERLY, MA 01915	Â	Â	Senior VP, Marketing	Â	

Signatures

Lynnette C. Fallon, as attorney in fact for William J.

Bintz

07/17/2007

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- (1) These shares are issuable on restricted stock units granted under the Company's 2000 Stock Plan. 25% of these units are vested and 25% will vest on each of 07/03/2008, 07/03/2009 and 07/03/2010.
- These shares are issuable on restricted stock units granted under the Company's 2000 Stock Plan. 25% of these units will vest on each of 07/16/2008, 07/16/2009, 07/16/2010 and 07/16/2011.
- (3) Exercisable as to 25% of the shares on each of 01/03/2007, 01/03/2008, 01/03/2009 and 01/03/2010.
- (4) Exercisable as to 25% of the shares on each of 05/15/2008, 05/15/2009, 05/15/2010 and 05/15/2011.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *See* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.

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