Bintz William J Form 4 January 16, 2013

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if no longer

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

OMB

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF subject to Section 16. Form 4 or obligations

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 30(h) of the Investment Company Act of 1940

SECURITIES

See Instruction 1(b).

Form 5

(Print or Type Responses)

may continue.

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Bintz William J Issuer Symbol **AXCELIS TECHNOLOGIES INC** (Check all applicable) [ACLS] (Last) (First) (Middle) 3. Date of Earliest Transaction Director 10% Owner X_ Officer (give title Other (specify (Month/Day/Year) below) below) 108 CHERRY HILL DRIVE 01/15/2013 EVP, Prod. Dev., Eng. & Mktg (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line) _X_ Form filed by One Reporting Person Form filed by More than One Reporting BEVERLY, MA 01915 Person (City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 1.Title of 2. Transaction Date 2A. Deemed 3. 4. Securities Acquired 5. Amount of 6. Ownership 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction(A) or Disposed of Securities Form: Direct Indirect (Instr. 3) any Code (D) Beneficially (D) or Beneficial Indirect (I) Ownership (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned Following (Instr. 4) (Instr. 4) Reported (A) Transaction(s) (Instr. 3 and 4) Amount (D) Price Common \$0 01/15/2013 A 37,795 $204,472 \frac{(2)}{}$ D (1) Stock

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

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

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1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exerc	cisable and	7. Titl	le and	8. Price of	9. Nu
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	TransactionNumber		Expiration D	ate	Amou	ınt of	Derivative	Deriv
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Under	rlying	Security	Secui
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivative		;		Secur	ities	(Instr. 5)	Bene
	Derivative				Securities		(Ins				Own
	Security				Acquired						Follo
	·				(A) or						Repo
					Disposed						Trans
					of (D)						(Instr
					(Instr. 3,						`
					4, and 5)						
									Amount		
						Exercisable Date	Expiration	on Title	or		
							•		Number		
									of		
				Code V	(A) (D)				Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Bintz William J 108 CHERRY HILL DRIVE BEVERLY, MA 01915

EVP, Prod. Dev., Eng. & Mktg

Signatures

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

Bintz

01/16/2013

**Signature of Reporting Person Date

Explanation of Responses:

- * 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).
- These shares are issuable on vesting of restricted stock units granted under the Company's 2012 Equity Incentive Plan, in lieu of base pay (1) otherwise due to the executive in 2013. Assuming continuation of employment, 25% of these restricted stock units will vest on March 15, 2013, June 15, 2013, September 15, 2013 and December 15, 2013.
- (2) Of the shares held as of January 15, 2013, 154,158 were issuable on vesting of restricted stock units granted the executive under the 2000 Stock Plan and the 2012 Equity Incentive Plan and are subject to forfeiture.

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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