## FORM 5

[ ] Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

[ ] Form 3 Holdings Reported

[ ] Form 4 Transactions Reported

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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(f) of the Investment Company Act of 1940

OMB APPROVAL

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1. Name and Address of Bisson, Kevin	Reporting Pers	son <sup>*</sup>	2. Issuer Name and Ticker or Trading Symbol	4. Statement for Month/Year	6. Relationship of Reporting Person(s) to Issuer (Check all applicable)			
(Last) c/o Axcelis Technologie 55 Cherry Hill Drive	(First) es, Inc.	(Middle)	Axcelis Technologies, Inc. ACLS  3. I.R.S. Identification	12/2002				
Beverly, MA 01915	(Street)		Number of Reporting Person, if an entity (voluntary)	5. If Amendment, Date of Original (Month/Year)	Treasurer			
(City)	(State)	(Zip)			7. 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 Acquired, Disposed of, or Beneficially Owned								
1. Title of Security (Instr. 3)	Date (Month/Day/Year)	Execution Date,	Code (Instr. 8)	A. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4, and 5)  Amount / A/D / Price	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Owner- ship Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
Common Stock			J(1)	113 / D / \$5.87	0	I	Axcelis 401(k) Plan	
Common Stock				//\$	14,791	D		

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

1. Title of Derivative Security (Instr. 3)	Exercise Price of Deri- vative	3. Transaction Date (Month/ Day/ Year)	3A. Deemed Execution Date, if any (Month/ Day/ Year)	4. Transaction Code (Instr.8)	Derivative Securities	6. Date Exercisable(DE) and Expiration Date(ED) (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr.5)	Derivative Securities Beneficially Owned at End of Year Reported Transaction(s) (Instr.4)	10. Owner- ship Form of Deriv- ative Securities: Direct (D) or Indirect (I) (Instr.4)	11. Nature of Indirect Beneficial Ownership (Instr.4)
					A or D	DE / ED	Title / Amount or Number of Shares				

**Explanation of Responses:** 

 $\|(1)$  Shares held in Axcelis 401(k) plan were automatically sold on 12/31/2002 in accordance with the terms of the plan.

/s/ Lynnette C. Fallon

02/07/2003

Attorney-in-Fact for Kevin M. Bisson

\*\* Signature of Reporting Person SEC 2270 (09-02)

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.

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.