SEC Form	4
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FORM 4	UNITED ST	ATES SECURITIES AND Washington, D.C.	OMB APPROVAL			
[] 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 S	TEMENT OF CHANGES IN BE ection 16(a) of the Securities Exchange ompany Act of 1935 or Section 30(h) of t	OMB Number: 3235-0287 Expires: January 31, 2005 Estimated average burden hours per response 0.5			
1. Name and Address of Reporting Per <b>Puma, Mary</b>	son*	2. Issuer Name and Ticker or Trading Symbol	4. Statement for Month/Day/Year	6. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
(Last) (First) (Middle) c/o Axcelis Technologies, Inc. 55 Cherry Hill Drive		Axcelis Technologies, Inc. ACLS	December 20, 2002	X Director _ 10% Owner X Officer (give title below) _ Other (specify below)		
(Street) Beverly, MA 01915		3. I.R.S. Identification Number of Reporting Person, if an entity (voluntary)	5. If Amendment, Date of Original (Month/Day/Year)	Description <u>President and CEO</u> 7. Individual or Joint/Group		
(City) (State)	(Zip)				eck Applicable Line)	
				d by One Reporting Person d by More than One Reporting Person		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned												
1. Title of Security (Instr. 3)	2.Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transact Code (Instr.		4. Securities Acc Of (D) (Instr. 3, 4, an	,	or Disposed	5. Amount of Securities Beneficially Owned Following Reported	6. Owner- ship Form: Direct (D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	v	Amount	A/D	Price	Transaction(s) (Instr. 3 and 4)	(Instr. 4)			

	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)	2. Conver- sion or Exercise Price of Deri- vative Security	3. Transaction Date (Month/ Day/ Year)	3A. Deemed Execution Date, if any (Month/ Day/ Year)	4. Transa Code (Inst		5. Number of Derivative Securities Acquired (A) Date(E		Expirati Date(ED)	Date ercisable(DE) and Expiration		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr.4)	10. Owner- ship Form of Deriv- ative Securities: Direct (D) or Indirect (I)	11. Nature of Indirect Beneficial Ownership (Instr.4)
				Code	V	A	D	DE	ED	Title	Amount or Number of Shares			(Instr.4)	
Stock options (right to buy)	\$5.85 of Response	12/20/2002		A(1)		100,000		(2)	6/21/2012	Common Stock	100,000	\$	100,000	D	

on of Responses:

 (1) Granted pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.
(2) Exercisable as to 25% of the total shares on each of 6/21/03, 6/21/04, 6/21/05 and 6/21/06. By: /s/ Lynnette C. Fallon, Attorney-in-fact on behalf of Mary G. Puma 12/20/02 \*\* Signature of Reporting Person Date

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.

SEC 1474 (9-02)