SEC I	Form 4
-------	--------

## FORM 4

Check this box if no longer subject to

Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	<b>OF CHANGES</b>	IN BENEFICIAL	<b>OWNERSHIP</b>
-----------	-------------------	---------------	------------------

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response: 0.5

(Instr. 4)

			or Sec	tion 30(h) of the In	vestment Con	npany Act of 1940						
PUMA MA (Last) C/O AXCELI	Iress of Reporting P <u>ARY G</u> (First) S TECHNOLOG ' HILL DRIVE	(Middle)		of Earliest Transac	NOLOĞIÎ	E <u>S INC</u> [ ACLS ]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) President and CEO					
(Street) BEVERLY (City)	MA (State)	01915 (Zip)	4. If Am	endment, Date of C	Driginal Filed (	Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Form filed by One Form filed by Mor Person	e Reporting Pers	on		
		Table I - No	n-Derivative S	ecurities Acqu	uired, Disp	oosed of, or Benefic	ially C	Dwned				
Date		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Dav/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4	and 5)	5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities) 1. Title of Derivative 3. Transaction 5. Number of 6. Date Exercisable and 7. Title and Amount 9. Number of 3A. Deemed 8. Price of 10. Ownership 11. Nature 2. Conversion Transaction Date Execution Date. Derivative of Indirect Derivative Expiration Date of Securities derivative if any (Month/Day/Year) Security (Instr. 3) or Exercise Price of (Month/Day/Year) Code (Instr. 8) Securities Acquired (A) (Month/Day/Year) Underlying Derivative Security Security (Instr. 5) Securities Form: Direct (D) Beneficial Ownership Beneficially Owned Following or Disposed of (D) (Instr. 3, 4 and 5) Derivative or Indirect (I) (Instr. 4) (Instr. 4) (Instr. 3 and 4) Security Reported Transaction(s)

Code

			Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		(Instr. 4)		
Stock option (right to buy)	\$11.87	06/25/2004	A <sup>(1)</sup>		100,000		06/25/2008 <sup>(2)</sup>	06/25/2014	Common Stock	100,000	\$0.00	100,000	D	

Explanation of Responses:

1. Granted Pursuant to the Axcelis Technologies, Inc. 2000 Stock Plan.

2. Excercisable as to 25% of the total shares on each of 6/25/2005, 6/25/2006, 6/25/2007 and 6/25/2008.

## Lynnette C. Fallon, as Attorney-06/28/2004 in-Fact for Mary G. Puma

\*\* Signature of Reporting Person

(A) or (D)

Amount

Price

Date

Reported Transaction(s)

(Instr. 3 and 4)

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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.