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PUMA MARY	G								
Form 4/A	2004								
December 27,								OMB A	PPROVAL
FORM	4 UNITED	STATES		RITIES A			COMMISSIO		3235-0287
Check this box if no longer subject to Section 16. Form 4 or								Expires:	January 31,
								Estimated burden hou response	urs per
Form 5 obligations may continu See Instruct 1(b).	ue. Section 17((a) of the l	Public U	Jtility Hol	ding Cor		nge Act of 1934, of 1935 or Section 940		
(Print or Type Res	sponses)								
1. Name and Add PUMA MAR	Person <u>*</u>	2. Issuer Name and Ticker or Trading Symbol			C	5. Relationship of Reporting Person(s) to Issuer			
		AXCELIS TECHNOLOGIES INC [ACLS]				(Check all applicable)			
(Last)	3. Date of Earliest Transaction (Month/Day/Year)				_X_ Director10% Owner _X_ Officer (give title Other (specify				
	S TECHNOLO ERRY HILL I		12/27/2	2004			below) Pre	below) esident and CEC)
	(Street) 4. If Amendment, Date Original Filed(Month/Day/Year)				ıl	6. Individual or Joint/Group Filing(Check Applicable Line)			
BEVERLY, N	IA 01915		12/27/2	2004			_X_ Form filed by Form filed by Person	One Reporting P More than One R	
(City)	(State)	(Zip)	Tab	ole I - Non-l	Derivative	Securities A	cquired, Disposed	of, or Beneficia	lly Owned
	Transaction Date Ionth/Day/Year)	2A. Deemo Execution any (Month/Da	Date, if	3. Transactio Code (Instr. 8) Code V	4. Securit nAcquired Disposed (Instr. 3, 4 Amount	(A) or of (D) 4 and 5) (A) or	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Reminder: Report	t on a separate line	e for each cl	ass of sec	urities bene	ficially ow	ned directly of	or indirectly.		
ľ	Ĩ				Perso inform requir	ons who res nation cont red to respo ays a curre	pond to the colle ained in this form and unless the fo ntly valid OMB co	n are not rm	SEC 1474 (9-02)
	Tab					posed of, or convertible s	Beneficially Owner securities)	d	

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number of	6. Date Exercisable and	7. Title and Amount
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transacti	orDerivative	Expiration Date	Underlying Securitie

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Security (Instr. 3)	or Exercise Price of Derivative Security		any (Month/Day/Year)	Code (Instr. 8)	Securities Acquired (A) of Disposed of (E (Instr. 3, 4, and 5)	or D)	(Month/Day/Year)		(Instr. 3 and 4)	
				Code V	(A) (I	D) Date Exercisable	Expiration Date	Title	Amou Numb Shares	
Stock option (right to buy)	\$ 7.97	12/27/2004		A <u>(1)</u>	100,000	06/25/2008 <u>(2)</u>	06/25/2014	Common Stock	100,0	

Reporting Owners

Reporting Owner Name / Address	Relationships						
	Director	10% Owner	Officer	Other			
PUMA MARY G C/O AXCELIS TECHNOLOGIES, INC. 108 CHERRY HILL DRIVE BEVERLY, MA 01915	Х		President and CEO				
Signatures							
Lynnette C. Fallon, as Attorney-in-Fact for Puma	12/27/2004						
<u>**</u> 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).

(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.

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.