FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	DVAL
OMB Number:	3235-0287
Estimated average burd	len
hours per response:	0.5

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 Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

	nd Address of		2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]											tionship of Reporting all applicable) Director Officer (give title		g Pers	Person(s) to Issuer 10% Owner Other (specify				
	(Fi CELIS TEC		Date o		iest Trar	nsac	tion (Mor	nth/D	ay/Year)		X	below) below) VP and GM, CCS									
(Street) BEVERLY MA 01915 (City) (State) (Zip)						4. If Amendment, Date of Original Filed (Month/Day/Year) 08/24/2004										ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tab	le I - Noi	n-Deriv	vativ	e Se	curit	ties A	cqu	ıired, [Disp	osed o	f, or	Ben	eficia	lly C	Owned				
Da					2. Transaction Date (Month/Day/Year)			eemed tion Dat h/Day/Ye	<i>'</i>	3. Transac Code (Ir 8)	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				4 and Securition Beneficition Owned I		s Illy ollowing	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
							Code	v	Amount		(A) or (D)	Price	- 1-	Reported Transacti (Instr. 3 a	ion(s)			(Instr. 4)			
Common	Stock	4/200	/2004				М		3,125		A	\$5.	7 6,590.8		0.8(2)		D				
Common Stock 08/24						/2004				S		3,125 I		D	\$9		3,465.8(3)			D	
		-	Table II -									sed of, onvertil				y Ov	vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code (8)		ı of		Exp	Date Exer piration D pnth/Day/	ate		7. Title and Amount of Securities Underlying Derivative Securi (Instr. 3 and 4)		Security	De Sed (Ins	8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Dat	te ercisable		Expiration Date	Title		Amount or Number of Shares						
Stock option (right to buy)	\$5.7	08/24/2004			M			3,125	05/	01/2007 ⁽¹	0	5/01/2013	Com Sto	nmon ock	3,125		\$0.00	9,375	5	D	

Explanation of Responses:

- 1. Exercisable as to 3,125 shares on each of 5/01/2004, 5/01/2005, 5/01/2006 and 5/01/2007.
- 2. Amended to correct share balances
- 3. Amended to correct share balances.

<u>Lynnette C. Fallon, as attorney-</u> in-fact for Jan Paul van Maaren

08/24/2004

** 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.

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.