FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 2054

wasiiiigioii, D.C. 20549	OMB APPROVAL			
STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP	OMB Number:	3235		

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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

					OI.	occu	011 30(11)	or tire	invesiment C	ompany A	1011340							
1. Name and Address of Reporting Person* VAN MAAREN JAN PAUL			2. Issuer Name and Ticker or Trading Symbol AXCELIS TECHNOLOGIES INC [ACLS]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
VAINIV	IAAILIN	JAN FAUL											,	Officer	aive title		10% Ov Other (s	
(Last)	(Fi	iret)	(Middle)		3. D	Date o	f Earliest	Tran	saction (Month	/Dav/Year)			- X	below)	give the		below)	рсопу
(Last) (First) (Middle) C/O AXCELIS TECHNOLOGIES, INC.					06/25/2004							VP and GM, CCS						
	ERRY HILL	•	IIVG.															
108 CHE	ERRY HILL	DRIVE			4 If	f Ame	ndment I	Date	of Original File	d (Month/F	av/Year)		6 Inc	lividual or J	nint/Group	Filing	(Check Anr	nlicable
(Street)					7. "	AIIIC	marricht, i	Duic	or Originar r no	a (Monthly)	ay/ rear)		Line)	iividaai oi o	этти Отоир	· iiiig	(Check Ap)	JIICADIC
BEVERI	LY M	A	01915										X	Form fi	ed by One	Repo	rting Perso	า
DEVEREI WIT 01313												Form filed by More than One Reporting Person						
(City)	(S	tate)	(Zip)															
		Tal	ble I - Non	-Deriv	ative	e Se	curitie	s Ac	quired, Di	sposed	of, or B	enef	icially	Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,			Code (Instr. 5)			4 and Securitie Beneficia Owned F		es Fo ally (D) Following (I)	Form (D) or	Ownership orm: Direct) or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
				Code V				de V Amount		or I	Price	Reported Transacti (Instr. 3 a	tion(s)			(Instr. 4)		
									uired, Dis s, options,					Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)		4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		of Secu Underly Derivat	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	i S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
				C	ode	v	(A)	(D)	Date Exercisable	Expiration Date	ı Title	or Nu of	ımber					
Stock option (right to buy)	\$11.87	06/25/2004		A	A ⁽¹⁾		12,500		06/25/2008 ⁽²⁾	06/25/201	4 Commo Stock		2,500	\$0.00	12,500	0	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 attorneyin-fact for Jan Paul van Maaren

06/28/2004

** 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.