FORM 4	4
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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).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

1. Name and Address of Reporting MARXE AUSTIN W & GR DAVID M	*		2. Issuer Name and Ticker or Trading Symbol AMTECH SYSTEMS INC [ASYS]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director			
(Last) (First) C/O SPECIAL SITUATION MADISON AVENUE, SUI		3. Date of Earli 01/04/2010	3. Date of Earliest Transaction (Month/Day/Year) 01/04/2010								
(Street) NEW YORK, NY 10022	4. If Amendme	nt, Date O	rigina	al Filed(Mo	onth/Day	y/Year)	6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City) (State)	(Zip)		Table I - I	Non-	Derivativ	e Seci	urities Acq	uired, Disposed of, or Beneficially Owned			
1. Title of Security (Instr. 3)	Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transactio Code (Instr. 8)	on	(A) or Disposed of (D) (Instr. 3, 4 and 5)		d of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	6. Ownership Form: Direct (D)	Beneficial Ownership	
			Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	or Indirect (I) (Instr. 4)	(Instr. 4)	
Common Stock	01/04/2010		S		9,248 (<u>1)</u>	D	\$ 11.4952	1,046,735 (1)	I (1)	By Limited Partnerships (1)	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1474 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

	(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.		5.		6. Date Exer	cisable	7. Tit	le and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transacti	on	Numl	ber	and Expirati	on Date	Amo	unt of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		of		(Month/Day	/Year)	Unde	rlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	ative			Secu	rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Secur				(Instr	: 3 and			2	(Instr. 4)
	Security					Acqu				4)			0	Direct (D)	
						(A) 0							- F	or Indirect	
						Dispo							Transaction(s)		
						of (D	·						(Instr. 4)	(Instr. 4)	
						(Instr	· · ·								
						4, and	15)								
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								LACICISADIC	Date		of				
				Code	V	(A)	(D)				Shares				

Reporting Owners

	Reporting Owner Name / Address		Relationships							
Reportin			10% Owner	Officer	Other					
C/O SPECIAL SITU	ENUE, SUITE 2600		Х							

Signatures

Austin W. Marxe	01/06/2010
**Signature of Reporting Person	Date

David M. Greenhouse 01/06/2010

**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).

Greenhouse in the shares of Common Stock owned by QP, Tech and Tech II is limited to the extent of his pecuniary interest.

This is a joint filing by Austin W. Marxe (Marxe) and David M. Greenhouse (Greenhouse). They share voting and investment control over all securities owned by Special Situations Fund III QP, L.P. (QP), Special Situations Technology Fund, L.P. (Tech) and Special Situations Technology Fund II, L.P. (Tech II), respectively. 723,735 shares of Common Stock are held by QP, 41,673 shares of Common Stock are held by Tech and 300,379 shares of Common Stock are held by Tech II. The interest of Marxe and

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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