FORM 4

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

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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).

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

(Print or Ty	pe Response	s)																	
1. Name and Address of Reporting Person* MARXE AUSTIN W & GREENHOUSE 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 Officer (give title below) Other (specify below)						
(Last) (First) (Middle) C/O SPECIAL SITUATIONS FUNDS, 527 MADISON AVENUE, SUITE 2600					3. Date of Earliest Transaction (Month/Day/Year) 01/13/2010														
NEW YORK, NY 10022					4. If Amendment, Date Original Filed(Month/Day/Year)								6. Individual or Joint/Group Filing(Check Applicable Line) _X_ Form filed by One Reporting PersonForm filed by More than One Reporting Person						
(City)	(State)		(Zip)		Table I - Non-Derivative Securities Acqui							ired, Disposed of, or Beneficially Owned						
(Instr. 3) Date (Month/Day/Year) an			Execution			Transaction Code		(A) or Disposed of (D) (Instr. 3, 4 and 5)) B R	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)			Form: Direct	ship Indire Benef	Beneficial Ownership		
								Code	V	Amount	(A) or (D)	Pric	ce	(I)			(I) (Instr.	4)	,
Common Stock 01/13/2010			S			150,00	D	\$ 12.6 (1)	61 8	894,635 ⁽²⁾					imited erships				
Reminder:	Report on a s	separate line	e for each	class of secu	urities t	peneficiall	y ov	vned d	I	Persons v	ho re	s forn	n are	e not requ	ction of inf ired to res	spond (unless	SEC 14	74 (9-02)
				Table II -										lly Owned					
Security	2. Conversion or Exercise Price of Derivative Security	3. Transac Date (Month/Da		3A. Deemed Execution D any (Month/Day	l Pate, if	4. Transacti Code	ion	5. Number of Deriva Securi Acquir (A) or Dispos of (D) (Instr.	fumber and Expiration Date (Month/Day/Year) derivative ecurities acquired A) or bisposed		7. Ti Amo Und Secu	Title and ount of lerlying urities tr. 3 and	Derivative Security (Instr. 5) d (Instr. 5) Derivative Security Benefit Owned Follow Report Transa (Instr.		erivative Ownership Form of Derivative		Beneficia Ownershi (Instr. 4)		
						Code	v	(A)		Date Exercisabl		ration	Title	Amount or e Number of Shares					

Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
MARXE AUSTIN W & GREENHOUSE DAVID M C/O SPECIAL SITUATIONS FUNDS 527 MADISON AVENUE, SUITE 2600 NEW YORK, NY 10022		X				

Signatures

Austin W. Marxe	01/14/2010
**Signature of Reporting Person	Date

David M. Greenhouse	01/14/2010
**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).
- (1) This is a weighted average price.
 - 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
- (2) 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. 601,699 shares of Common Stock are held by QP, 35,689 shares of Common Stock are held by Tech and 257,247 shares of Common Stock are held by Tech II. The interest of Marxe and Greenhouse in the shares of Common Stock owned by QP, Tech and Tech II is limited to the extent of his pecuniary interest.

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.