

AMERICAN TECHNOLOGY CORP /DE/  
Form 3  
August 17, 2006

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

OMB Number: 3235-0104  
Expires: January 31, 2005  
Estimated average burden hours per response... 0.5

**INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,  
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section  
30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *	2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol
Â MARXE AUSTIN W & GREENHOUSE DAVID M	(Month/Day/Year) 08/07/2006	AMERICAN TECHNOLOGY CORP /DE/ [ATCO]
(Last) (First) (Middle)		
	4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)

C/O SPECIAL SITUATIONS FUNDS,Â 527 MADISON AVENUE, SUITE 2600  
(Street)

(Check all applicable)

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
\_\_\_ Officer \_\_\_ Other  
(give title below) (specify below)

NEW YORK,Â NYÂ 10022  
(City) (State) (Zip)

6. Individual or Joint/Group Filing(Check Applicable Line)  
\_X\_ Form filed by One Reporting Person  
\_\_\_ Form filed by More than One Reporting Person

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
Common Stock	3,449,081 <sup>(1)</sup>	I <sup>(1)</sup>	By Limited Partnerships <sup>(1)</sup>

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

SEC 1473 (7-02)

**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 control number.**

**Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)**

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)	3. Title and Amount of Securities Underlying Derivative Security	4. Conversion or Exercise	5. Ownership Form of	6. Nature of Indirect Beneficial Ownership (Instr. 5)
--------------------------------------------	----------------------------------------------------------	------------------------------------------------------------------	---------------------------	----------------------	-------------------------------------------------------

	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	
Warrants A	08/07/2006	04/07/2010	Common Stock	788,090 <u>(1)</u>	\$ 2.67	I <u>(1)</u>	By Limited Partnerships <u>(1)</u>
Warrants B	07/19/2005	07/19/2009	Common Stock	344,155 <u>(1)</u>	\$ 6.36	I <u>(1)</u>	By Limited Partnerships <u>(1)</u>

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	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	Â	Â X	Â	Â

## Signatures

Austin W.  
Marxe  
08/17/2006  
Date  
\*\*Signature of Reporting Person

David M.  
Greenhouse  
08/17/2006  
Date  
\*\*Signature of Reporting Person

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 5(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).

This is a joint filing by Austin W. Marxe (Marxe) & 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 Private Equity Fund, L.P. (PE), Special Situations Technology Fund, LP (Tech) & Special Situations Technology II, Fund, L.P. (Tech II), respectively. 1,574,806 shares of CS, 372,466 (1) Wts A & 164,853 Wts B are held by QP, 550,640 shares of CS, 102,564 Wts A & 75,307 Wts B are held by PE, 183,435 shares of CS, 43,385 Wts A & 14,344 Wts B are held by Tech & 1,140,200 shares of CS, 269,675 Wts A & 89,651 Wts B are held by Tech II. The interest of Marxe and Greenhouse in the shares of Common Stock owned by QP, PE, 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.