

# FORM 4

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

OMB APPROVAL

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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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person* <b>WHANG JONG S</b>			2. Issuer Name and Ticker or Trading Symbol <b>AMTECH SYSTEMS INC [asys]</b>			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) _____ <b>Chief Executive Officer</b>		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <b>09/07/2010</b>					
(Street)			4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person		
(City)	(State)	(Zip)	<b>Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned</b>					

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Amtech Systems, Inc. \$.01 par value common stock	09/07/2010		M		29,400	A	\$ 6.5315	119,400	D	
Amtech Systems, Inc. \$.01 par value common stock	09/07/2010		S		29,400	D	\$ 16.2725	90,000	D	
Amtech Systems, Inc. \$.01 par value common stock	09/08/2010		M		24,100	A	\$ 6.5315	114,100	D	
Amtech Systems, Inc. \$.01 par value common stock	09/08/2010		S		24,100	D	\$ 16.0559	90,000	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		M		42,800	A	\$ 6.5315	132,800	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		300	D	\$ 15.81	132,500	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,400	D	\$ 15.83	131,100	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		750	D	\$ 15.76	130,350	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,000	D	\$ 15.91	129,350	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,300	D	\$ 15.94	128,050	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		800	D	\$ 15.92	127,250	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		4,100	D	\$ 15.93	123,150	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		398	D	\$ 16.01	122,752	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		200	D	\$ 16.10	122,552	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		300	D	\$ 16.09	122,252	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		200	D	\$ 16.08	122,052	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,200	D	\$ 16	120,852	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		500	D	\$ 16.02	120,352	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,350	D	\$ 15.89	119,002	D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		3,049	D	\$ 15.90	115,953	D	

Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,050	D	\$ 15.96	114,903		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		500	D	\$ 15.99	114,403		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		4,351	D	\$ 15.95	110,052		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		100	D	\$ 15.98	109,952		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,202	D	\$ 15.97	108,750		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,100	D	\$ 16.03	107,650		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		900	D	\$ 16.06	106,750		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		300	D	\$ 16.05	106,450		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		1,100	D	\$ 16.04	105,350		D	
Amtech Systems, Inc. \$.01 par value common stock	09/09/2010		S		200	D	\$ 15.88	105,150		D	

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

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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 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)		7. Title and Amount of Underlying Securities (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Amtech Systems, Inc. Employee Stock Option	\$ 6.5315	09/07/2010		M		29,400		03/15/2006	03/15/2011	Amtech Systems, Inc. \$.01 par value common stock	29,400	(1)	105,600 (2)	D	
Amtech Systems, Inc. Employee Stock Option	\$ 6.5315	09/08/2010		M		24,100		03/15/2006	03/15/2011	Amtech Systems, Inc. \$.01 par value common stock	24,100	(1)	81,500 (2)	D	
Amtech Systems, Inc. Employee Stock Option	\$ 6.5315	09/09/2010		M		42,800		03/15/2006	03/15/2011	Amtech Systems, Inc. \$.01 par value common stock	42,800	(1)	38,700 (3)	D	

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other

WHANG JONG S			Chief Executive Officer	
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**Signatures**

Robert T. Hass on behalf of Jong S. Whang by Power of Attorney		09/09/2010
<small>Signature of Reporting Person</small>		<small>Date</small>

**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) Price omitted because the transaction is a grant of a stock option.
- (2) This is the number of derivative securities, with the same terms and conditions, following the reported transaction.
- (3) This is the number of derivative securities, with the same terms and conditions, following the reported transaction. Total of all derivative securities, with different terms and conditions, held following the reported transaction is 188,700.

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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