

# 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>Pentinga Fokko</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) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <b>President</b>	
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) <b>12/10/2010</b>		
<b>TEMPRESS SYSTEMS, B.V., RADEWEG 31</b>			4. If Amendment, Date Original Filed(Month/Day/Year)		
(Street) <b>VAASEN, P7 8171 MD</b>			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)			

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

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	12/10/2010		M		1,875	A	\$ 6.90	27,500	D	
Amtech Systems, Inc. \$.01 par value common stock	12/10/2010		M		250	A	\$ 7	27,750	D	
Amtech Systems, Inc. \$.01 par value common stock	12/10/2010		M		9,375	A	\$ 14.79	37,125	D	
Amtech Systems, Inc. \$.01 par value common stock	12/10/2010		S		11,500	D	\$ 25.03	25,625	D	
Amtech Systems, Inc. \$.01 par value common stock	12/10/2010		S		1,875	D	\$ 25.01	23,750	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)
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Amtech Systems, Inc. Employee Stock Option	\$ 6.90	12/10/2010		M	1,875	12/08/2007	12/08/2016	Amtech Systems, Inc. \$.01 par value common stock	1,875	(1)	0 (2)	D	
Amtech Systems, Inc. Employee Stock Option	\$ 7	12/10/2010		M	250	01/30/2008	01/30/2017	Amtech Systems, Inc. \$.01 par value common stock	250	(1)	0 (2)	D	

Amtech Systems, Inc. Employee Stock Option	\$ 14.79	12/10/2010		M	9,375	12/06/2010	12/06/2017	Amtech Systems, Inc. \$.01 par value common stock	9,375	(1)	3,125 (3)	D
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## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Pentinga Fokko TEMPRESS SYSTEMS, B.V. RADEWEG 31 VAASSEN, P7 8171 MD			President	

## Signatures

Robert T. Hass on behalf of Fokko Pentinga by Power of Attorney		12/10/2010
<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 61,875.

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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