

Pentinga Fokko
Form 4
December 10, 2010

FORM 4 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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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, 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 *
Pentinga Fokko

2. Issuer Name and Ticker or Trading Symbol
AMTECH SYSTEMS INC [asys]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)
12/10/2010

___ Director ___ 10% Owner
__X__ Officer (give title below) ___ Other (specify below)
President

TEMPRESS SYSTEMS,
B.V., RADEWEG 31

(Street)

4. If Amendment, Date Original Filed(Month/Day/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

VAASSEN, P7 8171 MD

(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 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 | \$ 6.9 | 27,500 | D |
| Amtech Systems, Inc. \$.01 par value common stock | 12/10/2010 | | M | | 250 | A | \$ 7 | 27,750 | D |

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| | | | | | | | |
|---|------------|---|--------|---|----------|--------|---|
| 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.

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.

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(9-02)

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) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|
| | | | | Code | V (A) (D) | Date Exercisable Expiration Date | Title Amount or Number of Shares |
| Amtech Systems, Inc. Employee Stock Option | \$ 6.9 | 12/10/2010 | | M | 1,875 | 12/08/2007 12/08/2016 | Amtech Systems, Inc. \$.01 par value common stock 1,875 |
| Amtech Systems, | \$ 7 | 12/10/2010 | | M | 250 | 01/30/2008 01/30/2017 | Amtech Systems, 250 |

| | | | | | | | | | |
|---|----------|------------|--|---|-------|------------|------------|--|-------|
| Inc. Employee Stock Option | | | | | | | | Inc. \$.01 par value common stock | |
| 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 |

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

__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) 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. 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.