

Giese Alfred
 Form 4
 August 20, 2010

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, 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 *
 Giese Alfred

(Last) (First) (Middle)

C/O AMTECH SYSTEMS,
 INC., 131 SOUTH CLARK DR.

(Street)

TEMPE, AZ 85281

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

AMTECH SYSTEMS INC [asys]

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

08/19/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person
 Form filed by More than One Reporting Person

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 | 08/19/2010 | | M | | 6,000 | A | \$ 8.32 | 7,000 | D |
| Amtech Systems, Inc. \$.01 par value common stock | 08/19/2010 | | M | | 1,667 | A | \$ 3.3 | 8,667 | D |

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Amtech Systems, Inc. \$.01 par value common stock 08/19/2010 S 7,667 A \$ 13.8516 1,000 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) | | |
|---|--|--------------------------------------|--|--------------------------------|---|--|---|-------|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Amtech Systems, Inc. Non-Employee Director Stock Option | \$ 8.32 | 08/19/2010 | | M | 6,000 | 04/13/2010 04/13/2017 | Amtech Systems, Inc. \$.01 par value common stock | 6,000 | |
| Amtech Systems, Inc. Non-Employee Director Stock Option | \$ 3.3 | 08/19/2010 | | M | 1,667 | 03/13/2010 03/13/2019 | Amtech Systems, Inc. \$.01 par value common stock | 1,667 | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Giese Alfred C/O AMTECH SYSTEMS, INC. | X | | | |

131 SOUTH CLARK DR.
TEMPE, AZ 85281

Signatures

Robert T. Hass on behalf of Albert W. Giese by Power of
Attorney

08/20/2010

_____*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 13,333

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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