

Goudena Egbert J. G.
Form 4
December 23, 2009

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 *
Goudena Egbert J. G.

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)

131 SOUTH CLARK DRIVE

(Street)

TEMPE, AZ 85281

(City) (State) (Zip)

3. Date of Earliest Transaction (Month/Day/Year)
12/22/2009

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

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) | | |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|-----|-------|
| | | | | (A) or (D) | Code | V | Amount | (D) | Price |

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.

SEC 1474 (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 | 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 | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and of Underlying Securities (Instr. 3 and |
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|
|--|------------------------------------|--------------------------------------|--|--------------------------------|---|--|---|

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| Derivative Security | | | | (A) or Disposed of (D) (Instr. 3, 4, and 5) | | | | | | | |
|---|----------|------------|--|---|------|---|-------|-----|---------------------------|---------------------------|---|
| | | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | Title |
| Amtech Systems, Inc. Non-Employee Director Stock Option | \$ 11.03 | 12/22/2009 | | | A | | 6,000 | | 12/22/2010 ⁽¹⁾ | 12/22/2020 ⁽²⁾ | Amtech Systems, Inc. \$.01 par value common stock |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Goudena Egbert J. G. 131 SOUTH CLARK DRIVE TEMPE, AZ 85281 | | | X | |

Signatures

Robert T. Hass on behalf of Egbert J. G. Goudena by Power of Attorney 12/23/2009

**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) One-third of the stock option granted vest on each of the first three anniversaries of the grant date.
Any unexercised stock options expire 90 days after membership on the Board of Directors terminates, except that the expiration is one year from the date of termination if such termination is the result of death, or such other expiration date as the Board of Directors sets in its discretion at the time of termination.
- (3) Price omitted because the transaction is a grant of a stock option.

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.