

Anderson Bradley Clark  
 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 \*  
 Anderson Bradley Clark

(Last) (First) (Middle)  
 131 SOUTH CLARK DRIVE  
 (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)  
 12/09/2010

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)  
 Chief Financial Officer

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 | 12/09/2010                           |  | M                              |   | 5,000 A \$ 3.8  | 30,500   | D                                 |
| Amtech Systems, Inc. \$.01 par value common stock | 12/09/2010                           |  | S                              |   | 5,000 D \$ 24.371   | 25,500   | D                                 |

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|   |            |   |       |   |          |        |   |
|---|------------|---|-------|---|----------|--------|---|
| Amtech Systems, Inc. \$.01 par value common stock | 12/10/2010 | M | 2,500 | A | \$ 3.8   | 28,000 | D |
| Amtech Systems, Inc. \$.01 par value common stock | 12/10/2010 | S | 2,500 | D | \$ 25.21 | 25,500 | D |
| Amtech Systems, Inc. \$.01 par value common stock | 12/10/2010 | M | 2,500 | A | \$ 6.15  | 28,000 | D |
| Amtech Systems, Inc. \$.01 par value common stock | 12/10/2010 | S | 2,500 | D | \$ 25.21 | 25,500 | 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,                            | \$ 3.8   | 12/09/2010                           |  | M                              | 5,000   | 12/09/2010 12/09/2018                                    | Amtech Systems, 5,000   |

|  |         |            |  |   |       |            |            |  |       |
|--|---------|------------|--|---|-------|------------|------------|--|-------|
| Inc.<br>Employee<br>Stock<br>Option                              |         |            |  |   |       |            |            | Inc. \$.01<br>par value<br>common<br>stock                       |       |
| Amtech<br>Systems,<br>Inc.<br>Employee<br>Stock<br>Option        | \$ 3.8  | 12/10/2010 |  | M | 2,500 | 12/09/2010 | 12/09/2018 | Amtech<br>Systems,<br>Inc. \$.01<br>par value<br>common<br>stock | 2,500 |
| Amtech<br>Systems,<br>Inc. \$.01<br>par value<br>common<br>stock | \$ 6.15 | 12/10/2010 |  | M | 2,500 | 11/20/2010 | 11/20/2019 | Amtech<br>Systems,<br>Inc. \$.01<br>par value<br>common<br>stock | 2,500 |

## Reporting Owners

| Reporting Owner Name / Address                                     | Relationships |           |                         |       |
|--|---------------|-----------|-------------------------|-------|
|  | Director      | 10% Owner | Officer                 | Other |
| Anderson Bradley Clark<br>131 SOUTH CLARK DRIVE<br>TEMPE, AZ 85281 |               |           | Chief Financial Officer |       |

## Signatures

|   |            |
|---|------------|
| Robert T. Hass on behalf of Brad Anderson by Power of<br>Attorney                       | 12/10/2010 |
| <u>  </u> **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 72,500.

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.