

AUGUST TECHNOLOGY CORP
 Form 4
 August 31, 2005

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 *
 PIEKOS STANLEY D

2. Issuer Name and Ticker or Trading Symbol
 AUGUST TECHNOLOGY CORP
 [AUGT]

5. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

(Last) (First) (Middle)
 4900 WEST 78TH STREET
 (Street)

3. Date of Earliest Transaction
 (Month/Day/Year)
 08/30/2005

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Chief Financial Officer

BLOOMINGTON, MN 55435
 (City) (State) (Zip)

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

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) | Price | | |
| | | | Code | V | Amount | (D) | |
| Common Stock | 08/30/2005 | | M | | 45,870 | A | |
| | | | | | \$ 4.36 | | |
| | | | | | 45,870 | | 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.

SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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| 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 |
| Stock Option (right to buy) | \$ 4.36 | 08/30/2005 | | M | 45,870 | (1) 04/07/2010 | | Common Stock | 45,870 |
| Stock Option (right to buy) | \$ 4.36 | | | | | (2) 04/07/2010 | | Common Stock | 325 |
| Stock Option (right to buy) | \$ 18.5 | | | | | 12/21/2004 10/24/2010 | | Common Stock | 10,000 |
| Stock Option (right to buy) | \$ 18.45 | | | | | 02/06/2004 02/06/2014 | | Common Stock | 5,632 |
| Stock Option (right to buy) | \$ 10.36 | | | | | (3) 07/30/2014 | | Common Stock | 10,000 |
| Stock Option (right to buy) | \$ 10.38 | | | | | (4) 12/30/2014 | | Common Stock | 35,000 |
| Stock Option (right to buy) | \$ 12.1 | | | | | 03/07/2005 03/07/2015 | | Common Stock | 4,932 |
| Stock Option (right to buy) | \$ 12.74 | | | | | 07/21/2005 07/21/2015 | | Common Stock | 1,013 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| PIEKOS STANLEY D 4900 WEST 78TH STREET BLOOMINGTON, MN 55435 | | | Chief Financial Officer | |

Signatures

/s/ Robert K. Ranum as Agent for Stanley D. Piekos pursuant to Power of Attorney
previously filed

08/31/2005

__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) Original option (114,675 shares) exercisable in five annual increments of 22,935 shares beginning on April 7, 2004.
- (2) Original option (325 shares) exercisable in five annual increments of 65 shares beginning on April 7, 2004.
- (3) Original option (10,000 shares) exercisable in five annual increments of 2,000 shares beginning July 30, 2004.
- (4) Original option (35,000 shares) exercisable: 11,900 shares on December 30, 2004 and 11,550 shares on December 30, 2005 and December 30, 2006.

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.