

FORM 4

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

| OMB APPROVAL | |
|--|-----------|
| OMB Number: | 3235-0287 |
| Estimated average burden hours per response... | 0.5 |

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 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | | |
|--|--|---|--|--|--|
| 1. Name and Address of Reporting Person * BAUMGARTNER ROBERT V | | 2. Issuer Name and Ticker or Trading Symbol TECHNE CORP /MN/ [TECH] | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> 10% Owner <input type="checkbox"/> Other (specify below) | |
| (Last) (First) (Middle) 5775 WAYZATA BOULEVARD, SUITE 400 | | 3. Date of Earliest Transaction (Month/Day/Year) 05/04/2011 | | | |
| (Street) MINNEAPOLIS, MN 55416 | | 4. If Amendment, Date Original Filed(Month/Day/Year) | | 6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person | |
| (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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|------------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 05/04/2011 | | M | | 2,435 | A | \$ 32.90 | 4,435 | D | |
| Common Stock | 05/04/2011 | | S | | 2,435 | D | \$ 78.8394 | 2,000 | 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) | | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----------------|---|----------------------------|--|--|--|--|
| | | | | | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Stock Option | \$ 32.90 | 05/04/2011 | | M | 2,435 | 10/23/2003 | 10/23/2013 | Common Stock | 5,000 | \$ 0 | 2,565 | D | |
| Stock Option | \$ 61.46 | | | | | 10/28/2010 | 10/27/2020 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 63.03 | | | | | 10/29/2009 | 10/28/2019 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 65.47 | | | | | 10/23/2008 | 10/22/2018 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 66.59 | | | | | 10/25/2007 | 10/24/2017 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 56.17 | | | | | 10/26/2006 | 10/26/2016 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 54.68 | | | | | 10/27/2005 | 10/26/2015 | Common Stock | 5,000 | | 5,000 | D | |
| Stock Option | \$ 37.10 | | | | | 10/21/2004 | 10/20/2014 | Common Stock | 5,000 | | 5,000 | D | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| BAUMGARTNER ROBERT V 5775 WAYZATA BOULEVARD, SUITE 400 MINNEAPOLIS, MN 55416 | X | | | |

Signatures

Robert Baumgartner

05/05/2011

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).

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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