

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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|--|---|---|
| 1. Name and Address of Reporting Person * <u>Kubicek Mark R.</u> (Last) (First) (Middle) 5540 PIONEER CREEK DRIVE (Street) MAPLE PLAIN MN 55359 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Proto Labs Inc [PRLB]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) <u>Executive Vice President</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) 09/04/2012 | |
| | | 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 |

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 | 09/04/2012 | | M ⁽¹⁾ | | 18,016 | A | \$0.5 | 178,016 | D | |
| Common Stock | 09/04/2012 | | s ⁽¹⁾ | | 18,016 | D | \$30.9101 ⁽²⁾ | 160,000 | D | |
| Common Stock | 09/05/2012 | | M ⁽¹⁾ | | 25,677 | A | \$0.5 | 185,677 | D | |
| Common Stock | 09/05/2012 | | s ⁽¹⁾ | | 25,677 | D | \$30.6377 ⁽³⁾ | 160,000 | D | |
| Common Stock | 09/06/2012 | | M ⁽¹⁾ | | 6,307 | A | \$0.5 | 166,307 | D | |
| Common Stock | 09/06/2012 | | s ⁽¹⁾ | | 6,307 | D | \$31.0019 ⁽⁴⁾ | 160,000 | D | |

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 Securities Underlying Derivative Security (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: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|--------|--|-----------------|---|--|--|---|--|-------|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | | Title |
| Employee Stock Option (right to buy) | \$0.5 | 09/04/2012 | | M ⁽¹⁾ | | | 18,016 | (5) | 02/28/2013 | Common Stock | 18,016 | \$0.00 | 31,984 | D | |
| Employee Stock Option (right to buy) | \$0.5 | 09/05/2012 | | M ⁽¹⁾ | | | 25,677 | (5) | 02/28/2013 | Common Stock | 25,677 | \$0.00 | 6,307 | D | |
| Employee Stock Option (right to buy) | \$0.5 | 09/06/2012 | | M ⁽¹⁾ | | | 6,307 | (5) | 02/28/2013 | Common Stock | 6,307 | \$0.00 | 0 | D | |

Explanation of Responses:

- Transaction effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on July 30, 2012.
- Reflects the weighted average price of 18,016 shares of common stock of Proto Labs, Inc. sold by the reporting person in multiple transactions on September 4, 2012 with sale prices ranging from \$30.80 to \$31.10 per share. The reporting person undertakes to provide upon request by the U.S. Securities and Exchange Commission staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- Reflects the weighted average price of 25,677 shares of common stock of Proto Labs, Inc. sold by the reporting person in multiple transactions on September 5, 2012 with sale prices ranging from \$30.40 to \$30.97 per share. The reporting person undertakes to provide upon request by the U.S. Securities and Exchange Commission staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- Reflects the weighted average price of 6,307 shares of common stock of Proto Labs, Inc. sold by the reporting person in multiple transactions on September 6, 2012 with sale prices ranging from \$31.00 to \$31.07 per share. The reporting person undertakes to provide upon request by the U.S. Securities and Exchange Commission staff, the issuer, or a security holder of the issuer, full information regarding the number of shares sold at each separate price.
- Fully vested.

Remarks:

/s/ Julie M. Regnier, Attorney-in-Fact for Mark R. Kubicek 09/06/2012

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* 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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