

Barta David Alan
 Form 4
 May 14, 2010

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 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, 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 *
 Barta David Alan

(Last) (First) (Middle)
 200 STATE STREET
 (Street)

BELOIT, WI 53511

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
 REGAL BELOIT CORP [RBC]

3. Date of Earliest Transaction
 (Month/Day/Year)
 05/12/2010

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)
 Vice President CFO

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 Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
| | | | Code | V | Amount | (D) | Price |
| Common Stock | 05/12/2010 | | M | | 10,000 | A | \$ 42.28 |
| Common Stock | 05/12/2010 | | M | | 15,000 | A | \$ 48.05 |
| Common Stock | 05/12/2010 | | M | | 20,000 | A | \$ 36.36 |
| Common Stock | 05/12/2010 | | M | | 10,000 | A | \$ 29.75 |
| Common Stock | 05/12/2010 | | S | | 21,408 | D | \$ 64.9429 |
| | | | | | | | (3) |

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Common Stock 05/12/2010 F 17,595 D \$ 64.99 36,036 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 Underlying Security (Instr. 3 and 4) | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title |
| Stock Appreciation Rights | \$ 42.28 | 05/12/2010 | | M | 10,000 | 05/02/2010 | 05/02/2018 | Common Stock |
| Non-Qualified Stock Option | \$ 29.75 | 05/12/2010 | | M | 10,000 | 01/21/2005 ⁽²⁾ | 01/21/2015 | Common Stock |
| Non-Qualified Stock Option | \$ 36.36 | 05/12/2010 | | M | 20,000 | 01/27/2008 | 01/27/2016 | Common Stock |
| Stock Appreciation Rights | \$ 48.05 | 05/12/2010 | | M | 15,000 | 02/06/2009 | 02/06/2017 | Common Stock |
| Stock Appreciation Rights | \$ 42.65 | | | | | 05/08/2011 ⁽¹⁾ | 05/08/2019 | Common Stock |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|--------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Barta David Alan 200 STATE STREET BELOIT, WI 53511 | | | Vice President CFO | |

Signatures

/s/ David A.
Barta

05/14/2010

__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) Granted as stock-settled SARs under the 2007 Equity Incentive Plan. The SARs vest and become exercisable 40% on the second anniversary of the date of grant, 60% on third anniversary, 80% on fourth anniversary and 100% on fifth anniversary.
- (2) Full vested stock options.

The Price in Column 4 is a weighted average price. The prices actually received ranged from \$64.77 to \$65.11. The reporting person has provided to the issuer, and will provide to any security holder of the issuer, or the SEC staff, upon request, information regarding the number of shares sold at each price within the range for all transaction reported in this Form 4 utilizing an average weighted price.

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.