

Barta David Alan
 Form 4
 May 14, 2010

FORM 4

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

OMB APPROVAL

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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

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

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

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Vice President CFO

BELOIT, WI 53511

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

(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	(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.