

Barta David Alan
 Form 4
 February 19, 2010

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 *
 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)
 02/17/2010

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 Ownership (Instr. 4)
			Code	V Amount (A) or (D) Price			
Common Stock	02/17/2010		M	25,000 A \$ 21.85	35,839	D	
Common Stock	02/17/2010		F	15,800 D \$ 55.9244	20,039	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)
Stock Appreciation Rights	\$ 42.28					05/02/2010 ⁽¹⁾ 05/02/2018	Common Stock
Non-Qualified Stock Option	\$ 21.85	02/17/2010		M	25,000	06/28/2009 06/28/2014	Common Stock
Non-Qualified Stock Option	\$ 29.75					⁽²⁾ 01/21/2015	Common Stock
Non-Qualified Stock Option	\$ 36.36					01/27/2008 ⁽³⁾ 01/27/2016	Common Stock
Stock Appreciation Rights	\$ 48.05					02/06/2009 ⁽⁴⁾ 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 02/19/2010

**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.

(3) Grant to reporting person of option to buy shares of common stock under the 2003 Equity Incentive Plan. The option vests and becomes exercisable 40% on the second anniversary of the date of grant, 60% on third anniversary, 80% on fourth anniversary and 100% on fifth anniversary.

(4) Granted as stock-settled SARs under the 2003 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.

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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