

FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

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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

1. Name and Address of Reporting Person* <u>Broughton Richard</u> (Last) (First) (Middle) <u>C/O CIRCOR INTERNATIONAL, INC.</u> <u>25 CORPORATE DRIVE, SUITE 130</u> (Street) <u>BURLINGTON MA 01803</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>CIRCOR INTERNATIONAL INC [CIR]</u> 3. Date of Earliest Transaction (Month/Day/Year) <u>04/02/2010</u> 4. If Amendment, Date of Original Filed (Month/Day/Year)	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>Vice President, CIO</u> 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person
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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	04/02/2010		M		591	A	(1)	1,387	D	
Common Stock	04/02/2010		F		225	D	(1)	1,162	D	
Common Stock	04/02/2010		M		374	A	(2)	1,536	D	
Common Stock	04/02/2010		F		142	D	(2)	1,394	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	Amount or Number of Shares				
Restricted Stock Units	(1)	04/02/2010		M			591	(1)	(1)	Common Stock	591	(1)	1,773	D	
Restricted Stock Units	(2)	04/02/2010		M			374	(2)	(2)	Common Stock	374	(2)	1,122	D	

Explanation of Responses:

1. The Restricted Stock Units (RSUs), the conversion of which is reported herein, are part of an RSU grant made to the Reporting Person on March 2, 2009 in connection with the Issuer's long-term equity incentive awards for the 2009 fiscal year. The RSUs granted on March 2, 2009 vest in equal installments on April 2, 2010, March 2, 2011, March 2, 2012, and March 2, 2013, and convert into shares of common stock on a one-for-one basis unless the Reporting Person previously selected a longer deferral period. This report reflects the vesting of the first installment of the RSUs and the Reporting Person's acquisition of the underlying shares less a withholding of a sufficient number of shares to pay applicable income taxes. The fair market value of the shares, based on the closing price of the Issuer's stock on April 2, 2010, is \$32.07.

2. The Restricted Stock Units (RSUs), the conversion of which is reported herein, were part of an RSU grant made to the Reporting Person on March 2, 2009 in connection with the Issuer's achievement of a return on invested capital target for the 2008 fiscal year. The RSUs granted on March 2, 2009 vest in equal installments on April 2, 2010, March 2, 2011, March 2, 2012, and March 2, 2013, and convert into shares of common stock on a one-for-one basis unless the Reporting Person previously selected a longer deferral period. This report reflects the vesting of the first installment of the RSUs and the Reporting Person's acquisition of the underlying shares less a withholding of a sufficient number of shares to pay applicable income taxes. The fair market value of the shares, based on the closing price of the Issuer's stock on April 1, 2010, is \$32.07.

/s/ Alan J. Glass, Attorney-in-Fact 04/06/2010

** 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.