

# FORM 4

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

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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  
or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person *	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)
<b>Michel Gary S</b>	<b>Ingersoll-Rand plc [ IR ]</b>	<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <b>Senior Vice President</b>
(Last) (First) (Middle) <b>C/O INGERSOLL-RAND COMPANY, 800-E BEATY ST</b>	3. Date of Earliest Transaction (MM/DD/YYYY) <b>5/17/2013</b>	
(Street) <b>DAVIDSON, NC 28036</b>	4. If Amendment, Date Original Filed (MM/DD/YYYY)	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
(City) (State) (Zip)		

**Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned**

1.Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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			
Ordinary Shares	5/17/2013		M <sup>(1)</sup>		17280	A	\$38.69	44926	D	
Ordinary Shares	5/17/2013		S <sup>(1)</sup>		17280	D	\$58.00	27646	D	
Ordinary Shares <sup>(2)</sup>								5114.24	I	By Plan Trustee
Ordinary Shares								300	I	Trust for Child

**Table II - Derivative Securities Beneficially Owned ( e.g. , puts, calls, warrants, options, convertible securities)**

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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		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 of Derivative Security: 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				
Stock Option (Right to Buy)	\$38.69	5/17/2013		M (1)			17280	2/2/2008 (3)	2/1/2015	Ordinary Shares	17280	\$0	0	D	

### Explanation of Responses:

- (1) Transaction executed pursuant to a Rule 10b5-1 Plan adopted by the reporting person on August 24, 2012.  
(2) Latest available information provided by the trustee of the Ingersoll-Rand Employee Savings Plan.  
(3) All options have fully vested and are exercisable.

### Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
<b>Michel Gary S C/O INGERSOLL-RAND COMPANY</b>			<b>Senior Vice President</b>	

800-E BEATY ST DAVIDSON, NC 28036				
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**Signatures**

/s/ S. Wade Sheek - Attorney-in-Fact

5/20/2013

\*\* 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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