

# FORM 3

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

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## INITIAL STATEMENT OF 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

1. Name and Address of Reporting Person *  <b>Zafari Robert</b>	2. Date of Event Requiring Statement (MM/DD/YYYY) <b>7/1/2010</b>	3. Issuer Name <b>and</b> Ticker or Trading Symbol  <b>Ingersoll-Rand plc [IR]</b>
(Last) (First) (Middle)  <b>C/O INGERSOLL-RAND COMPANY,, ONE CENTENNIAL AVENUE</b>	4. Relationship of Reporting Person(s) to Issuer (Check all applicable)  <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>	
(Street)  <b>PISCATAWAY, NJ 08854</b>  (City) (State) (Zip)	5. 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

**Table I - Non-Derivative Securities Beneficially Owned**

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr. 5)
<b>Ordinary Shares</b>	<b>4030</b>	<b>D</b>	
<b>Ordinary Shares (Restricted Share Units)</b> (1)	<b>2631</b>	<b>D</b>	
<b>Ordinary Shares (Restricted Share Units)</b> (2)	<b>3799</b>	<b>D</b>	
<b>2009 - 2010 Performance Share Units</b> (3)	<b>9931</b>	<b>D</b>	
<b>2009 - 2011 Performance Share Units</b> (4)	<b>9931</b>	<b>D</b>	
<b>2010 - 2012 Performance Share Units</b> (5)	<b>6331</b>	<b>D</b>	

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

1. Title of Derivate Security (Instr. 4)	2. Date Exercisable and Expiration Date (MM/DD/YYYY)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
			<b>Ordinary</b>				

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

1. Title of Derivate Security (Instr. 4)	2. Date Exercisable and Expiration Date (MM/DD/YYYY)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			
<b>Stock Appreciation Rights</b>	(6)	1/1/2011	<b>Shares</b>	<b>2400</b>	<b>\$20.27</b>	<b>D</b>	
<b>Stock Appreciation Rights</b>	(7)	1/1/2012	<b>Ordinary Shares</b>	<b>4000</b>	<b>\$20.90</b>	<b>D</b>	
<b>Stock Appreciation Rights</b>	(8)	2/3/2014	<b>Ordinary Shares</b>	<b>13240</b>	<b>\$32.18</b>	<b>D</b>	
<b>Stock Appreciation Rights</b>	(9)	2/1/2015	<b>Ordinary Shares</b>	<b>14400</b>	<b>\$38.69</b>	<b>D</b>	
<b>Stock Appreciation Rights</b>	(10)	1/31/2016	<b>Ordinary Shares</b>	<b>7500</b>	<b>\$39.43</b>	<b>D</b>	
<b>Stock Option (Right to Buy)</b>	(11)	2/6/2017	<b>Ordinary Shares</b>	<b>13910</b>	<b>\$43.13</b>	<b>D</b>	
<b>Stock Option (Right to Buy)</b>	(12)	2/14/2018	<b>Ordinary Shares</b>	<b>18471</b>	<b>\$39.00</b>	<b>D</b>	
<b>Stock Option (Right to Buy)</b>	(13)	2/11/2019	<b>Ordinary Shares</b>	<b>19730</b>	<b>\$16.85</b>	<b>D</b>	
<b>Stock Option (Right to Buy)</b>	(14)	2/15/2020	<b>Ordinary Shares</b>	<b>10744</b>	<b>\$31.59</b>	<b>D</b>	

**Explanation of Responses:**

- (1) Represents ordinary shares that may be issued upon the vesting of a like number of restricted share units granted on February 12, 2009. The restricted share units vest in three equal annual installments beginning on the first anniversary of the date of grant.
- (2) Represents ordinary shares that may be issued upon the vesting of a like number of restricted share units granted on February 16, 2010. The restricted share units vest in three equal annual installments beginning on the first anniversary of the date of grant.
- (3) Represents target number of Performance Shares. The actual number of shares to be issued, which could range from 0 to two times the initial target amount, will depend upon, among other things, the issuer's financial performance during the relevant performance period relative to companies in the S&P 500 Industrial Index. The shares, if any, will be issued in February 2011.
- (4) Represents target number of Performance Shares. The actual number of shares to be issued, which could range from 0 to two times the initial target amount, will depend upon, among other things, the issuer's financial performance during the relevant performance period relative to companies in the S&P 500 Industrial Index. The shares, if any, will be issued in February 2012.
- (5) Represents target number of Performance Shares. The actual number of shares to be issued, which could range from 0 to two times the initial target amount, will depend upon, among other things, the issuer's financial performance during the relevant performance period relative to companies in the S&P 500 Industrial Index. The shares, if any, will be issued in February 2013.
- (6) Stock appreciation rights, which have a ten-year term, became exercisable in three equal annual installments beginning on 01/02/2002.
- (7) Stock appreciation rights, which have a ten-year term, became exercisable in three equal annual installments beginning on 01/02/2003.
- (8) Stock appreciation rights, which have a ten-year term, became exercisable in three equal annual installments beginning on 02/04/2005.
- (9) Stock appreciation rights, which have a ten-year term, became exercisable in three equal annual installments beginning on 02/02/2006.
- (10) Stock appreciation rights, which have a ten-year term, became exercisable in three equal annual installments beginning on 02/01/2007.
- (11) The stock options, which have a ten-year term, vest in three equal installments beginning on 02/07/2008.
- (12) The stock options, which have a ten-year term, vest in three equal installments beginning on 02/15/2009.
- (13) The stock options, which have a ten-year term, vest in three equal installments beginning on 02/12/2010.
- (14) The stock options, which have a ten-year term, vest in three equal annual installments beginning on 02/16/2011.

**Reporting Owners**

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
<b>Zafari Robert</b> <b>C/O INGERSOLL-RAND COMPANY,</b> <b>ONE CENTENNIAL AVENUE</b> <b>PISCATAWAY, NJ 08854</b>			<b>Senior Vice President</b>	

**Signatures**/s/ Kenneth H. Yi - Attorney-in-Fact7/9/2010

\*\* 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 5(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 control number.

KNOW ALL MEN BY THESE PRESENTS that the undersigned hereby constitutes and appoints Patricia Nachtigal, Barbara A. Santoro and Kenneth H. Yi, and each of them severally, the undersigned's true and lawful attorneys and agents, with power to act with or without the other, to execute and file with the Securities and Exchange Commission, on behalf of the undersigned, any forms required to be filed by the undersigned pursuant to Rule 144 under the Securities Act of 1933 or pursuant to regulations under Section 16 of the Securities Exchange Act of 1934 in connection with transactions engaged in or to be engaged in by the undersigned in securities of Ingersoll-Rand Public Limited Company, a company formed in Ireland, and any and all amendments to such forms, and any and all instruments or documents filed as part or in connection with such forms and amendments; and the undersigned hereby ratifies and confirms all that said attorneys and agents and each of them shall do or cause to be done by virtue hereof. This Power of Attorney shall remain in effect until revoked or modified.

IN WITNESS WHEREOF the undersigned has subscribed these presents this 15 day of June, 2010.

*/s/ Robert Zafari*