

Zafari Robert  
 Form 3  
 July 09, 2010

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person *		2. Date of Event Requiring Statement	3. Issuer Name and Ticker or Trading Symbol	
Zafari Robert		(Month/Day/Year)	Ingersoll-Rand plc [IR]	
(Last)	(First)	(Middle)	07/01/2010	
C/O INGERSOLL-RAND COMPANY,, ONE CENTENNIAL AVENUE			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
PISCATAWAY, NJ 08854			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			Senior Vice President	

**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)
Ordinary Shares	4,030	D	^
Ordinary Shares (Restricted Share Units) <sup>(1)</sup>	2,631	D	^
Ordinary Shares (Restricted Share Units) <sup>(2)</sup>	3,799	D	^
2009 - 2010 Performance Share Units <sup>(3)</sup>	9,931	D	^
2009 - 2011 Performance Share Units <sup>(4)</sup>	9,931	D	^
2010 - 2012 Performance Share Units <sup>(5)</sup>	6,331	D	^

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

SEC 1473 (7-02)

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		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			
Stock Appreciation Rights	Â <u>(6)</u>	01/01/2011	Ordinary Shares	2,400	\$ 20.27	D	Â
Stock Appreciation Rights	Â <u>(7)</u>	01/01/2012	Ordinary Shares	4,000	\$ 20.9	D	Â
Stock Appreciation Rights	Â <u>(8)</u>	02/03/2014	Ordinary Shares	13,240	\$ 32.18	D	Â
Stock Appreciation Rights	Â <u>(9)</u>	02/01/2015	Ordinary Shares	14,400	\$ 38.69	D	Â
Stock Appreciation Rights	Â <u>(10)</u>	01/31/2016	Ordinary Shares	7,500	\$ 39.43	D	Â
Stock Option (Right to Buy)	Â <u>(11)</u>	02/06/2017	Ordinary Shares	13,910	\$ 43.13	D	Â
Stock Option (Right to Buy)	Â <u>(12)</u>	02/14/2018	Ordinary Shares	18,471	\$ 39	D	Â
Stock Option (Right to Buy)	Â <u>(13)</u>	02/11/2019	Ordinary Shares	19,730	\$ 16.85	D	Â
Stock Option (Right to Buy)	Â <u>(14)</u>	02/15/2020	Ordinary Shares	10,744	\$ 31.59	D	Â

## Reporting Owners

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

## Signatures

/s/ Kenneth H. Yi -  
Attorney-in-Fact

07/09/2010

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (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.

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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