

Stark Ronald J
 Form 4
 December 12, 2012

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 *
 Stark Ronald J

2. Issuer Name and Ticker or Trading Symbol
 AIRGAS INC [ARG]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

C/O AIRGAS, INC., 259 N.
 RADNOR-CHESTER RD, STE. 100

3. Date of Earliest Transaction (Month/Day/Year)
 12/10/2012

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 Senior VP - Sales/Marketing

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

RADNOR, PA 19087

(City) (State) (Zip)

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 Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price
Common Stock	12/10/2012		M		8,500	A	\$ 43.62
							13,690 ⁽¹⁾
Common Stock	12/10/2012		S		8,500	D	\$ 91.29
							5,190 ⁽¹⁾
							⁽²⁾

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

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 (9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

Table with 8 columns: 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 (Instr. 3, 4, and 5) Acquired (A) or Disposed of (D), 6. Date Exercisable and Expiration Date (Month/Day/Year), 7. Title and Amount of Underlying Securities (Instr. 3 and 4), 8. Amount or Number of Shares. Row 1: Stock Option (Right to Buy) at \$43.62 on 12/10/2012, Code M, 8,500 shares, (3) Date Exercisable, 05/08/2015 Expiration Date, Common Stock Title, 8,500 Shares.

Reporting Owners

Table with 2 main columns: Reporting Owner Name / Address, Relationships. Reporting Owner: Stark Ronald J, C/O AIRGAS, INC., 259 N. RADNOR-CHESTER RD, STE. 100, RADNOR, PA 19087. Relationships: Director, 10% Owner, Officer, Other. Specific Relationship: Senior VP - Sales/Marketing.

Signatures

Robert H. Young, Jr., Attorney-in-Fact for Ronald J. Stark 12/12/2012
**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) Includes 1,915 shares of Airgas, Inc. common stock acquired pursuant to Airgas Inc.'s Employee Stock Purchase Plan ("ESPP") as of 12/10/2012, the date of the latest available statement of the reporting person's ESPP holdings. Since 11/14/2011, the date of the statement relied upon for the amount reported on the reporting person's 11/30/2011 Form 3, a total of 358 ESPP shares have been acquired in transactions exempt from Section 16(b).
(2) This price represents the average selling price (within a range of \$91.25-\$91.34) of the shares of common stock of Airgas, Inc. sold by the reporting person, as provided by the reporting person's broker.
(3) Options became exercisable in 25% equal increments on each of 5/08/2008, 5/8/2009, 5/8/2010 and 5/8/2011.
(4) Not applicable.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.