

Smyth Thomas M
 Form 4
 September 10, 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 *
 Smyth Thomas M

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 ROAD,
 SUITE 100

3. Date of Earliest Transaction
 (Month/Day/Year)
 09/06/2012

____ Director _____ 10% Owner
 Officer (give title below) _____ Other (specify below)
 VP and Controller

(Street)
 RADNOR, PA 19087

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

(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	09/06/2012		M	1,625 A \$ 21.15	3,844 ⁽¹⁾	D	
Common Stock	09/06/2012		S	1,625 D \$ 83.81 ⁽²⁾	2,219 ⁽¹⁾	D	
Common Stock					1,126 ⁽³⁾	I	By 401(k) Plan.

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

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SEC 1474 (9-02)

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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 Underlying Securities (Instr. 3 and 4)	8. Amount or Number of Shares
Stock Option (Right to Buy)	\$ 21.15	09/06/2012		M	1,625	⁽⁴⁾ 05/25/2014	Common Stock	1,625

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Smyth Thomas M C/O AIRGAS, INC. 259 N. RADNOR-CHESTER ROAD, SUITE 100 RADNOR, PA 19087			VP and Controller	

Signatures

Robert H. Young, Jr., Attorney-In-Fact for Thomas M. Smyth	09/10/2012
**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 2,219 shares of Airgas, Inc. common stock acquired pursuant to Airgas, Inc.'s Employee Stock Purchase Plan ("ESPP") as of 09/06/2012, the date of the latest available statement of the reporting person's ESPP holdings. Since 12/01/2011, the date of the statement relied upon for the amount reported on the reporting person's 12/02/2011 Form 4, a total of 213 ESPP shares have been acquired in transactions exempt from Section 16(b).
- (2) This price represents the average selling price (within a range of \$83.77-\$83.85) of the shares of common stock of Airgas, Inc. sold by the reporting person, as provided by the reporting person's broker.
- (3)

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The information presented is as of 09/06/2012, the date of the latest available statement of the reporting person's holdings of Airgas, Inc. common stock in his 401(k) plan. Since 12/01/2011, the date of the statement relied upon for the amount reported on the reporting person's 12/02/2011 Form 4, a total of 51 shares have been acquired in transactions exempt from Section 16(b).

- (4) These options became exercisable in 25% equal increments on each of 05/25/2005, 05/25/2006, 05/25/2007 and 05/25/2008.
- (5) 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.