

Smyth Thomas M  
 Form 4  
 December 17, 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

(Last) (First) (Middle)

C/O AIRGAS, INC., 259 N.  
 RADNOR-CHESTER ROAD,  
 SUITE 100

(Street)

RADNOR, PA 19087

(City) (State) (Zip)

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

3. Date of Earliest Transaction  
 (Month/Day/Year)  
 12/13/2012

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_ 10% Owner  
 Officer (give title below) \_\_\_ Other (specify below)  
 VP and Controller

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

**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	12/13/2012		M	1,625 A \$ 21.15	3,921 <sup>(1)</sup>	D	
Common Stock	12/13/2012		M	6,200 A \$ 26.03	10,121 <sup>(1)</sup>	D	
Common Stock	12/13/2012		S	7,825 D \$ 90.05	2,296 <sup>(1)</sup>	D	
Common Stock					1,148 <sup>(2)</sup>	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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(9-02)

**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	12/13/2012		M	1,625	<sup>(3)</sup> 05/25/2014	Common Stock	1,625
Stock Option (Right to Buy)	\$ 26.03	12/13/2012		M	6,200	<sup>(5)</sup> 05/24/2015	Common Stock	6,200

## 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

12/17/2012

\*\*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)

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Includes 2,296 shares of Airgas, Inc. common stock acquired pursuant to Airgas, Inc.'s Employee Stock Purchase Plan ("ESPP") as of 12/13/2012, the date of the latest available statement of the reporting person's ESPP holdings. Since 11/02/2012, the date of the statement relied upon for the amount reported on the reporting person's 11/06/2012 Form 4, a total of 0 ESPP shares have been acquired in transactions exempt from Section 16(b).

- The information presented is as of 12/13/2012, the date of the latest available statement of the reporting person's holdings of Airgas, Inc.
- (2) common stock in his 401(k) plan. Since 11/02/2012, the date of the statement relied upon for the amount reported on the reporting person's 11/06/2012 Form 4, a total of 11 shares have been acquired in transactions exempt from Section 16(b).
  - (3) These options became exercisable in 25% equal increments on each of 05/25/2005, 05/25/2006, 05/25/2007 and 05/25/2008.
  - (4) Not Applicable.
  - (5) These options became exercisable in 25% equal increments on each of 05/24/2006, 05/24/2007, 05/24/2008 and 05/24/2009.

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.