

Smyth Thomas M  
 Form 4  
 September 10, 2012

**FORM 4** UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287  
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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)

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

(Last) (First) (Middle)  
 C/O AIRGAS, INC., 259 N.  
 RADNOR-CHESTER ROAD,  
 SUITE 100  
 (Street)

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

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)
				(A) or (D) Code V Amount (D) Price			
Common Stock	09/06/2012		M	1,625 A \$ 21.15	3,844 <sup>(1)</sup>	D	
Common Stock	09/06/2012		S	1,625 D \$ 83.81 <sup>(2)</sup>	2,219 <sup>(1)</sup>	D	
Common Stock					1,126 <sup>(3)</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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SEC 1474 (9-02)



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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.