

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)
				(A) or (D)	Price		
				Code V	Amount		
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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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.

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