

Rohde Michael E
 Form 4
 September 14, 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 *
 Rohde Michael E

(Last) (First) (Middle)

C/O AIRGAS, INC., 259 N.
 RADNOR-CHESTER RD, STE. 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)
 09/12/2012

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)

Division President - South

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 Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|----------------------------------------------------|--------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------|
| | | | Code | V | Amount | Price | |
| Common Stock | 09/12/2012 | | M | | 14,000 | \$ 43.62 | A 16,518 ⁽¹⁾ D |
| Common Stock | 09/12/2012 | | S | | 14,000 | \$ 84.67 | D 2,518 ⁽¹⁾ ₍₂₎ |

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) | \$ 43.62 | 09/12/2012 | | M | 14,000 | ⁽³⁾ 05/08/2015 | Common Stock | 14,000 |

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Rohde Michael E
C/O AIRGAS, INC.
259 N. RADNOR-CHESTER RD, STE. 100
RADNOR, PA 19087

Division President - South

Signatures

Robert H. Young, Jr., Attorney-in-Fact for Michael E. Rohde

09/14/2012

__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 2,518 shares of Airgas, Inc. common stock acquired pursuant to Airgas, Inc.'s Employee Stock Purchase Plan ("ESPP") as of 9/12/2012, 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 in the reporting person's 11/30/2011 Form 3, a total of 340 ESPP shares have been acquired in transactions exempt from Section 16(b).

(2) This price represents the average selling price (within a range of \$84.31-\$85.00) 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, 5/08/2009, 5/08/2010 and 5/08/2011.

(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.

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