

Graff Leslie J
 Form 4
 August 26, 2011

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 *
 Graff Leslie J

(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)
 08/25/2011

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)
 Sr. VP Corporate Development

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 Beneficial Ownership (Instr. 4)
				(A) or (D) Code V Amount (D) Price			
Common Stock	08/25/2011		S	1,300 D \$ 62.04	18,414 ⁽¹⁾	D	
Common Stock	08/25/2011		S	700 D \$ 62.05	17,714 ⁽¹⁾	D	
Common Stock					250	I	By Immediate Family
Common Stock					4,273 ⁽²⁾	I	By 401(k) Plan

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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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned (Instr. 3 and 4)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

Reporting Owners

Reporting Owner Name / Address

Relationships

Director 10% Owner Officer Other

Graff Leslie J
C/O AIRGAS, INC.
259 N. RADNOR-CHESTER ROAD, SUITE 100
RADNOR, PA 19087

Sr. VP Corporate Development

Signatures

Robert H. Young, Jr., Attorney-In-Fact for Leslie J. Graff

08/26/2011

__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 3,494 shares of Airgas, Inc. common stock acquired pursuant to Airgas, Inc.'s Employee Stock Purchase Plan ("ESPP") as of 8/25/2011, the date of the latest available statement of the reporting person's ESPP holdings. Since 4/1/2011, the date of the statement relied upon for the amount reported on the reporting person's 4/4/2011 Form 4, a total of 27 ESPP shares have been acquired in transactions exempt from Section 16(b).

(2) The information presented is as of 8/25/2011, the date of the latest available statement of the reporting person's holdings of Airgas, Inc. common stock in his 401(k) plan. Since 4/1/2011, the date of the statement relied upon for the amount reported on the reporting person's 4/4/2011 Form 4, a total of 13 shares have been acquired in transactions exempt from Section 16(b).

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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