

LIME ROCK PARTNERS II LP  
 Form 5  
 February 14, 2006

**FORM 5**

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

OMB APPROVAL  
 OMB Number: 3235-0362  
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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).  
 Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
**LIME ROCK PARTNERS II LP**  
 (Last) (First) (Middle)

2. Issuer Name and Ticker or Trading Symbol  
**NATCO GROUP INC [NTG]**

5. Relationship of Reporting Person(s) to Issuer  
 (Check all applicable)

**C/O LIME ROCK MANAGEMENT LP, 518 RIVERSIDE AVENUE**  
 (Street)

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
**12/31/2005**

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

**WESTPORT, CT 06880**  
 (City) (State) (Zip)

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

6. Individual or Joint/Group Reporting  
 (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) (A) or (D) Price	5. Amount of Securities Beneficially Owned at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Ownership (Instr. 4)
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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 2270 (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	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)
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	Derivative Security				Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares
					(A)	(D)				
Contractual Right <sup>(1)</sup>	\$ 0	06/03/2003	Â	J4 <sup>(1)</sup>	1 <sup>(1)</sup>	Â	Â <sup>(2)</sup>	06/03/2013	Common Stock	2,500
Contractual Right <sup>(4)</sup>	\$ 0	06/03/2003	Â	J4 <sup>(4)</sup>	1 <sup>(4)</sup>	Â	Â <sup>(5)</sup>	Â <sup>(5)</sup>	Common Stock	2,500

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
LIME ROCK PARTNERS II LP C/O LIME ROCK MANAGEMENT LP 518 RIVERSIDE AVENUE WESTPORT, CT 06880	Â	Â X	Â	Â
Lime Rock Partners GP II, L.P. C/O LIME ROCK MANAGEMENT LP 518 RIVERSIDE AVENUE WESTPORT, CT 06880	Â	Â X	Â	Â
LRP GP II, Inc. C/O LIME ROCK MANAGEMENT LP 518 RIVERSIDE AVENUE WESTPORT, CT 06880	Â	Â X	Â	Â

## Signatures

LIME ROCK PARTNERS II, L.P., By Lime Rock Partners GP II, its General Partner, By LRP GP II, Inc., its General Partner By Mark A. McCall	02/14/2006
**Signature of Reporting Person	Date
LIME ROCK PARTNERS GP II, L.P., By LRP GP II, Inc., its General Partner, By Mark A. McCall	02/14/2006
**Signature of Reporting Person	Date
LRP GP II, Inc., By Mark A. McCall	02/14/2006
**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).

Contractual right related to grant of options to purchase 2,500 shares of common stock pursuant to an agreement between Lime Rock Partners II, L.P. ("Fund") and its manager, as the result of which the Fund, Lime Rock Partners GP II, L.P. ("GP LP") and LRP GP II, Inc. ("GP Inc.") may be deemed to have a pecuniary interest in these options. The Fund, GP LP and GP Inc. each disclaim beneficial ownership of these securities except to the extent of any pecuniary interest and this report shall not be deemed to be an admission that the Fund, GP LP or GP Inc. is the beneficial owner of such securities.

(1) Options vest 100% on the anniversary date of their issuance following one year of service by a director of grantor.

The Fund may be deemed to be the direct beneficial owner of the contractual right due to its pecuniary interest therein. GP LP may be deemed to be an indirect beneficial owner of the contractual right because of its position as general partner of the Fund and its entitlement to a share of the Fund's profits, and GP Inc. may be deemed to be an indirect beneficial owner of the contractual right because it is the general partner of GP LP and is entitled to a share of GP LP's profits. The Fund, GP LP and GP Inc. each disclaim beneficial ownership of these securities except to the extent of any pecuniary interest and this report shall not be deemed to be an admission that the Fund, GP LP or GP Inc. is the beneficial owner of such securities.

(2) Contractual right related to the grant of 2,500 shares of restricted stock pursuant to an agreement between the Fund and its manager, as the result of which the Fund, GP LP and GP Inc. may be deemed to have a pecuniary interest in these shares. The Fund, GP LP and GP Inc. each disclaim beneficial ownership of these securities except to the extent of any pecuniary interest and this report shall not be deemed to be an admission that the Fund, GP LP or GP Inc. is the beneficial owner of such securities.

(3) Restrictions on restricted stock lapse 100% after one year of service, or on June 3, 2004, or sooner on the death, disability or retirement after age 68 of the recipient, or upon a corporate change. The stock was issued on June 3, 2003, therefore has no expiration date, but could be forfeited if service ends prior to June 3, 2004, under certain circumstances.

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### Remarks:

This Form 5 is filed by Lime Rock Partners II, L.P., Lime Rock Partners GP II, L.P., and LRP

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.