

NuStar GP Holdings, LLC
 Form 4
 April 30, 2007

FORM 4

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

OMB APPROVAL

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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 *
GREEHEY WILLIAM E

2. Issuer Name and Ticker or Trading Symbol
 NuStar GP Holdings, LLC [NSH]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)
 P.O. BOX 781609
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)
 04/27/2007

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

SAN ANTONIO, TX 78278

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)
			Code	V	Amount	(A) or (D)	Price
Common Units	04/27/2007		P		500	A	\$ 31.85
Common Units	04/27/2007		P		700	A	\$ 31.86
Common Units	04/27/2007		P		4,300	A	\$ 31.9
Common Units	04/27/2007		P		500	A	\$ 31.91
Common Units	04/27/2007		P		400	A	\$ 31.93
	04/27/2007		P		1,800	A	
							5,164,462

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Common Units						\$ 31.95		
Common Units	04/27/2007		P	200	A	\$ 31.96	5,164,662	D
Common Units	04/27/2007		P	1,000	A	\$ 31.98	5,165,662	D
Common Units	04/27/2007		P	4,800	A	\$ 31.99	5,170,462	D
Common Units	04/27/2007		P	3,200	A	\$ 32	5,173,662	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Owned Beneficially (Instr. 5)
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Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
GREEHEY WILLIAM E P.O. BOX 781609 SAN ANTONIO, TX 78278	X	X		

Signatures

Amy L. Perry as Attorney-in-Fact for William E. Greehey
04/30/2007

**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).

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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