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FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

OMB APPROVAL										
OMB Number:	3235-0287									
Estimated average burden										
hours per response.	0.5									

1. Name and Address of Reporting Person*	2. Issuer Name and Ticker or Trading Symbol <u>NuStar Energy L.P.</u> [NS]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
<u>GREEHEY WILLIAM E</u>	<u></u>	X Director 10% Owner					
(Last) (First) (Middle) 2330 NORTH LOOP 1604 WEST	3. Date of Earliest Transaction (Month/Day/Year) 05/25/2011	Officer (give title Other (specify below) below)					
	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable					
(Street)		Line) X Form filed by One Reporting Person					
SAN ANTONIO TX 78248		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)	y Transaction Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	of Indirect Beneficial Ownership		
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Units	05/25/2011		Р		45,900	A	\$ 62.67 ⁽¹⁾	1,362,845	D	
Common Units	05/26/2011		Р		7,445	A	\$ 62.8589 ⁽²⁾	1,370,290	D	

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. Transa Code (8)		of Expiration		Expiration Da	6. Date Exercisable and Expiration Date (Month/Day/Year) Underlying Derivative Security (In: and 4)		Amount of Securities Security Jnderlying (Instr. 5) Derivative Security (Instr. 3)		Ownership Form: Direct (D)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Explanation of Responses:

1. This transaction was executed in multiple trades at prices ranging from \$62.36 per unit to \$62.91 per unit. The price reported above reflects the weighted average purchase price. Note that due to field restrictions in Table I, Column 4, the last decimal place does not appear. The total weighted average purchase price is actually \$62.67001. Upon request from the Securities and Exchange Commission or a unitholder of the issuer, full information regarding the number of units purchased at each separate price will be made available.

2. This transaction was executed in multiple trades at prices ranging from \$62.61 per unit to \$63.00 per unit. The price reported above reflects the weighted average purchase price. Note that due to field restrictions in Table I, Column 4, the last decimal place does not appear. The total weighted average purchase price is actually \$62.85888. Upon request from the Securities and Exchange Commission or a unitholder of the issuer, full information regarding the number of units purchased at each separate price will be made available.

/s/ Matthew D. Willcox, as Attorney-in-Fact for William 05 E. Greehey

05/27/2011

** Signature of Reporting Person Date

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

* 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.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.