FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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0.5

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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).

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

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1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol NuStar Energy L.P. [NS]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
Shoaf Thomas R					1	1100 M 211018 J 21.1.										Director		10% (Owner	
(Last) (First) (Middle)							Date of Earliest Transaction (Month/Day/Year)									Officer (give title below)		below	,	
2330 NORTH LOOP 1604 WEST						12/14/2010									Vice President & Controller					
(Street)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
SAN ANTONIO		TX 78248													X	Forn	Form filed by One Reporting Person			
(City) (State) (Zip)																Form filed by More than One Reporting Person				
		Tabl	le I - No	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Ben	efici	ally (Owne	ed			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						ar) E	A. Deemed execution Date, any Month/Day/Year)		Transaction Dispose Code (Instr. 5)		Disposed	ities Acquired (A) d Of (D) (Instr. 3, 4			4 and So		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount (A) or (D)		Price		Reported Transaction(s) (Instr. 3 and 4)		ı	(111501.4)		
Common Units ⁽¹⁾ 12/14/2						2010		F		56		D	\$70	.66		4,935	D			
		Та									sed of, onvertib				y Ov	vned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transa Code (8)				6. Date E Expiratio (Month/D	9	Amount of Securities Underlying Derivative Security (Instr. and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Nu of	ount mber ares						

Explanation of Responses:

1. "Common Units" reported are units not distributed to reporting person in order to satisfy the reporting person's tax obligations on the grant. The grant of phantom units (called "Restricted Units" under the plan under which the grant was made) was originally reported on 12/15/2009.

Matthew D. Willcox, as

Attorney-in-Fact for Thomas

12/17/2010

R. Shoaf

** 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.