Shoaf Thomas R Form 4 November 04, 2010

FORM 4

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

OMB Number: 3235-0287

burden hours per

Check this box if no longer subject to Section 16.

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Expires: January 31, 2005
Estimated average

OMB APPROVAL

Form 4 or Form 5 obligations may continue. See Instruction

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

response... 0.5

1(b).

(City)

(State)

(Zip)

(Print or Type Responses)

1. Name and Address of Reporting Person * Shoaf Thomas R	2. Issuer Name and Ticker or Trading Symbol	5. Relationship of Reporting Person(s) to Issuer		
	NuStar Energy L.P. [NS]	(Check all applicable)		
(Last) (First) (Middle)	3. Date of Earliest Transaction			
	(Month/Day/Year)	Director 10% Owner		
2330 NORTH LOOP 1604 WEST	11/02/2010	_X_ Officer (give title Other (specify below)		
		Vice President & Controller		
(Street)	4. If Amendment, Date Original	6. Individual or Joint/Group Filing(Check		
	Filed(Month/Day/Year)	Applicable Line)		
SAN ANTONIO, TX 78248		_X_ Form filed by One Reporting Person Form filed by More than One Reporting Person		

		1 401	To 1 - I will be live becarious Acquireu, Disposed of, or Beneficiary Owned						iy Owncu
1.Title of	2. Transaction Date	2A. Deemed	3.	4. Secur	ities A	cquired	5. Amount of	6. Ownership	7. Nature of
Security	(Month/Day/Year)	Execution Date, if	Transactio	on(A) or D	ispose	d of (D)	Securities	Form: Direct	Indirect
(Instr. 3)		any	Code	(Instr. 3,	4 and	5)	Beneficially	(D) or	Beneficial
		(Month/Day/Year)	(Instr. 8)				Owned	Indirect (I)	Ownership
							Following	(Instr. 4)	(Instr. 4)
					()		Reported		
					(A)		Transaction(s)		
			C 1 W		or	ъ.	(Instr. 3 and 4)		
			Code V	Amount	(D)	Price			
Common Units (1)	11/02/2010		F	41	D	\$ 64.65	5,130	D	

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

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 control number.

SEC 1474

(9-02)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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1. Title of Derivative	2. Conversion	3. Transaction Date (Month/Day/Year)		4. Transactio	5. orNumber	6. Date Exerc Expiration D		7. Title a		8. Price of Derivative	9. Nu Deriv
Security (Instr. 3)	or Exercise Price of Derivative Security	(World) Day, Tear)	any (Month/Day/Year)	Code (Instr. 8)	of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Month/Day/		Underly Securitie (Instr. 3	ing es	Security (Instr. 5)	Secur Bene Owne Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title N	umber		

Reporting Owners

Reporting Owner Name / Address	Relationships						
F-	Director	10% Owner	Officer	Other			
Shoaf Thomas R			Vice				
2330 NORTH LOOP 1604 WEST			President &				
SAN ANTONIO, TX 78248			Controller				

Signatures

Matthew D. Willcox, as Attorney-in-Fact for Thomas R.
Shoaf

**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).

"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 11/03/2006.

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

Reporting Owners 2