

Brown Mary Rose  
Form 5  
February 14, 2011

# FORM 5

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

OMB APPROVAL

OMB Number: 3235-0362  
Expires: January 31, 2005  
Estimated average burden hours per response... 1.0

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 \*  
**Brown Mary Rose**

(Last) (First) (Middle)

2330 NORTH LOOP 1604 WEST

(Street)

SAN ANTONIO, TX 78248

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
**NuStar Energy L.P. [NS]**

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
12/31/2010

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

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

SVP - Administration

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) |            |          | 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 Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|------------|----------|--|--|---|
|                                 |                                      |  |                                | Amount  | (A) or (D) | Price    |  |  |   |
| Common Units                    | 01/07/2010                           | Â  | P4                             | 229   | A          | \$ 56.83 | 229  | I  | By Daughter   |
| Common Units                    | 01/07/2010                           | Â  | P4                             | 229   | A          | \$ 56.83 | 229  | I  | By Son  |
| Common Units                    | 12/14/2010                           | Â  | P4                             | 244   | A          | \$ 70.66 | 473  | I  | By Daughter   |
| Common Units                    | 12/14/2010                           | Â  | P4                             | 244   | A          | \$ 70.66 | 473  | I  | By Son  |

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Common Units      ^                      ^                      ^                      ^                      ^                      ^                      15,987                      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 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 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. of D Se B O E Is Fi (I |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---------------------------|
|  |  |                                      |  |                                | (A) (D)   | Date Exercisable      Expiration Date                    | Title      Amount or Number of Shares                         |  |                           |

**Reporting Owners**

| Reporting Owner Name / Address  | Relationships |           |         |                        |
|---|---------------|-----------|---------|------------------------|
|   | Director      | 10% Owner | Officer | Other                  |
| Brown Mary Rose<br>2330 NORTH LOOP 1604 WEST<br>SAN ANTONIO, TX 78248 | ^             | ^         | ^       | SVP - Administration ^ |

**Signatures**

/s/ Matthew D. Willcox, as Attorney-in-Fact for Mary Rose Brown      02/14/2011

\_\_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 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.