

Miller Jeffrey Allen
 Form 3
 March 21, 2013

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0104
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â Miller Jeffrey Allen | | (Month/Day/Year) | ATWOOD OCEANICS INC [ATW] | |
| (Last) | (First) | (Middle) | 03/19/2013 | |
| 15835 PARK TEN PLACE | | | | |
| DRIVE | | | | |
| (Street) | | (Check all applicable) | | |
| HOUSTON,Â TXÂ 77084 | | <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) | | |
| (City) | (State) | (Zip) | 6. Individual or Joint/Group Filing(Check Applicable Line) | |
| | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person | |
| | | | <input type="checkbox"/> Form filed by More than One Reporting Person | |

Table I - Non-Derivative Securities Beneficially Owned

| | | | |
|------------------------------------|--|---|--|
| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|------------------------------------|--|---|--|

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly. SEC 1473 (7-02)

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.

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

| | | | | | |
|---|---|--|--|--|--|
| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
| | Date Exercisable Expiration Date | Title Amount or Number of Shares | | | |

(Instr. 5)

| | | | | | | | |
|------------------------|-------|-------|--------------|-------|--------|---|---|
| Restricted Stock Units | Â (1) | Â (1) | Common Stock | 3,003 | \$ (2) | D | Â |
|------------------------|-------|-------|--------------|-------|--------|---|---|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| Miller Jeffrey Allen 15835 PARK TEN PLACE DRIVE HOUSTON, TX 77084 | Â X | Â | Â | Â |

Signatures

/s/ Jeffrey A. Miller, Walter A. Baker By Power of Attorney 03/21/2013

__Signature of Reporting Person

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 5(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).

- These shares of common stock were granted as a Restricted Stock Unit Award under the Atwood Oceanics, Inc. 2013 Long-Term Incentive Plan. One-hundred percent (100%) of the restricted stock unit award vests thirteen months after the date of award unless an election is made to defer vesting to a later date under the Atwood Oceanics, Inc. Nonemployee Directors Elective Deferred Compensation Plan.
- (1)
 - (2) Each restricted stock unit represents the contingent right to receive one share of common stock upon vesting of the unit.

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.