

Jimenez Luis  
 Form 3  
 December 17, 2010

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

OMB APPROVAL

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**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)

<p>1. Name and Address of Reporting Person *</p> <p>Â Jimenez Luis</p> <p>(Last) (First) (Middle)</p> <p>15835 PARK TEN PLACE                  DRIVE,Â P.O. BOX 218350                  (77418)</p> <p>(Street)</p> <p>HOUSTON,Â TXÂ 77084</p> <p>(City) (State) (Zip)</p>	<p>2. Date of Event Requiring Statement</p> <p>(Month/Day/Year)</p> <p>12/13/2010</p>	<p>3. Issuer Name and Ticker or Trading Symbol</p> <p>ATWOOD OCEANICS INC [ATW]</p>	<p>4. Relationship of Reporting Person(s) to Issuer</p> <p>(Check all applicable)</p> <p><input type="checkbox"/> Director <input type="checkbox"/> 10% Owner  <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other                  (give title below) (specify below)                  Vice President, Human Resource</p>	<p>5. If Amendment, Date Original Filed(Month/Day/Year)</p>	<p>6. Individual or Joint/Group Filing(Check Applicable Line)</p> <p><input checked="" type="checkbox"/> Form filed by One Reporting Person  <input type="checkbox"/> Form filed by More than One Reporting Person</p>
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**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)
Common Stock	12,383	D	Â

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

SEC 1473 (7-02)

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**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	5. Ownership Form of Derivative Security:	6. Nature of Indirect Beneficial Ownership (Instr. 5)
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	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Security	Direct (D) or Indirect (I) (Instr. 5)	
Nonqualified Stock Options	Â (1)	12/06/2017	Common Stock	4,672	\$ 44.75	D	Â
Nonqualified Stock Options	Â (1)	12/04/2018	Common Stock	5,250	\$ 14.65	D	Â
Nonqualified Stock Options	Â (1)	12/03/2019	Common Stock	10,279	\$ 35.69	D	Â
Nonqualified Stock Options	Â (1)	12/09/2020	Common Stock	11,012	\$ 37.41	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Jimenez Luis 15835 PARK TEN PLACE DRIVE P.O. BOX 218350 (77418) HOUSTON, TX 77084	Â	Â	Â Vice President, Human Resource	Â

## Signatures

Luis Jimenez                      12/17/2010  
 \_\_Signature of                      Date  
 Reporting Person

## 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).
- (1) These options were granted for a term of ten (10) years (pursuant to Atwood Oceanics, Inc. 2007 Plan), with twenty-five (25%) of such options becoming exercisable at each of one (1) year, two (2) years, three (3) years and four (4) years respectively, from the date of grant.

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.