UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 8-K

CURRENT REPORT

Pursuant to Section 13 or 15(d) of the

Securities Exchange Act of 1934

Date of Report (Date of earliest event reported): May 21, 2007 (May 17, 2007)

OMNI ENERGY SERVICES CORP.

(Exact name of registrant as specified in its charter)

LOUISIANA (State or other jurisdiction 0-23383 (Commission File Number) 72-1395273 (I.R.S. Employer

of incorporation)

4500 N.E. Evangeline Thruway

Identification No.)

Carencro, Louisiana 70520

(Address of principal executive offices) (Zip Code)

(337) 896-6664

(Registrant s telephone number, including area code)

Not Applicable

(Former name or former address, if changed since last report)

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Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2.below):

- " Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- " Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- " Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- " Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

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Item 7.01 Regulation FD Disclosure

On May 17, 2007, OMNI Energy Services Corp. issued a press release providing updated earnings guidance for the fiscal year ending December 31, 2007. A copy of the press release is attached as Exhibit 99.1 to this Current Report and is incorporated herein by reference.

The information contained herein shall not be deemed filed for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the Exchange Act), or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended, or the Exchange Act.

Item 9.01 Financial Statements and Exhibits

- (c) Exhibits
 - 99.1 Press Release dated May 17, 2007

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SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

OMNI ENERGY SERVICES CORP.

Dated: May 21, 2007

By: /s/ G. Darcy Klug G. Darcy Klug

Executive Vice President