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): August 7, 2007

SUN HYDRAULICS CORPORATION

(Exact name of registrant as specified in its charter)

Florida (State or other jurisdiction

of incorporation)

0-21835 (Commission File Number) 59-2754337 (IRS Employer

Identification No.)

1500 West University Parkway, Sarasota, Florida (Address of principal executive offices)

kway, Sarasota, Florida 34243 l executive offices) (Zip Code) Registrant s telephone number, including area code 941-362-1200

(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))

Item 2.02. Results of Operations and Financial Condition.

On August 7, 2007, the Registrant issued the press release attached hereto as Exhibit 99.1 announcing its financial results for the second fiscal quarter of 2007.

Item 9.01. Financial Statements and Exhibits.

- (c) Exhibits.
 - 99.1 Press Release of the Registrant dated August 7, 2007.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, as amended, the Registrant has duly caused this Report to be signed on its behalf by the undersigned thereunto duly authorized.

SUN HYDRAULICS CORPORATION

By: /s/ Tricia L. Fulton Tricia L. Fulton Chief Financial Officer (Principal Financial and Accounting Officer)

Dated: August 7, 2007

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