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**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): September 13, 2010

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)

34243
(Zip Code)

Registrant's telephone number, including area code 941-362-1200

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

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 8.01 Other Events

On September 13, 2010, the Registrant issued the press release attached hereto as Exhibit 99.1 announcing the declaration of a \$0.09 per share cash dividend on its common stock, payable on October 15, 2010, to shareholders of record as of September 30, 2010.

Item 9.01. Financial Statements and Exhibits.

(d) Exhibits.

99.1 Press release dated September 13, 2010.

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: September 16, 2010

Sun Hydraulics Corporation Declares 3rd Quarter Cash Dividend of \$0.09

SARASOTA, FLA, September 13, 2010 – Sun Hydraulics Corporation (NASDAQ: SNHY) has announced a \$0.09 per share cash dividend on its common stock. The dividend is payable on October 15, 2010, to shareholders of record as of September 30, 2010.

Sun Hydraulics advises all shareholders to familiarize themselves with rules regarding dividends, payment dates and ex-dividend dates. See the following website for more information <http://www.sec.gov/answers/dividen.htm>.

Sun Hydraulics Corporation is a leading designer and manufacturer of high performance screw-in hydraulic cartridge valves and manifolds for worldwide industrial and mobile markets. For more information about Sun, please visit our website at www.sunhydraulics.com.

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