

FORM 4

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

OMB APPROVAL
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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

| | | | | | | | | |
|---|---------|----------|---|--|--|--|--|--|
| 1. Name and Address of Reporting Person * KOSKI CHRISTINE L | | | 2. Issuer Name and Ticker or Trading Symbol SUN HYDRAULICS CORP [SNHY] | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below) | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 06/02/2010 | | | | | |
| (Street) | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | | | 6. Individual or Joint/Group Filing(Check Applicable Line) <input type="checkbox"/> Form filed by One Reporting Person <input checked="" type="checkbox"/> Form filed by More than One Reporting Person | | |
| (City) | (State) | (Zip) | Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned | | | | | |

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | | | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-----------|---|--|---|
| | | | Code | V | Amount | (A) or (D) | Price | | | |
| Common Stock | 06/02/2010 | | S | | 700 | D | \$ 26.04 | 3,673,541 | D (1) | |
| Common Stock | 06/02/2010 | | S | | 500 | D | \$ 26.041 | 3,673,041 | D (1) | |
| Common Stock | 06/02/2010 | | S | | 900 | D | \$ 26.05 | 3,672,141 | D (1) | |
| Common Stock | 06/02/2010 | | S | | 300 | D | \$ 26.06 | 3,671,841 | D (1) | |
| Common Stock | 06/02/2010 | | S | | 1,500 | D | \$ 26.07 | 3,670,341 | D (1) | |
| Common Stock | 06/02/2010 | | S | | 1,100 | D | \$ 26.071 | 3,669,241 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 1 | D | \$ 26.45 | 3,669,240 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 300 | D | \$ 26.46 | 3,668,940 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 595 | D | \$ 26.47 | 3,668,345 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 235 | D | \$ 26.50 | 3,668,110 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 65 | D | \$ 26.52 | 3,668,045 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 500 | D | \$ 26.53 | 3,667,545 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 400 | D | \$ 26.55 | 3,667,145 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 100 | D | \$ 26.59 | 3,667,045 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 500 | D | \$ 26.60 | 3,666,545 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 1,000 | D | \$ 26.64 | 3,665,545 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 402 | D | \$ 26.68 | 3,665,413 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 702 | D | \$ 26.69 | 3,664,441 | D (1) | |
| Common Stock | 06/03/2010 | | S | | 200 | D | \$ 26.71 | 3,664,241 | D (1) | |
| Common Stock | | | | | | | | 208,940 | D (2) | |
| Common Stock | | | | | | | | 295,969.29 | D (3) | |
| Common Stock | | | | | | | | 60,000 | D (4) | |
| Common Stock | | | | | | | | 1,200 | I (5) | BY KOSKI MANAGEMENT, |

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

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

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | | | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|-----|-----|--|-----------------|---|--|--|--|--|
| | | | | Code | V | (A) | (D) | Date Exercisable | Expiration Date | | | | | |
| | | | | | | | | | | | | | | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--------------------------------|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| KOSKI CHRISTINE L | X | X | | |
| KOSKI BEVERLY | | X | | |
| KOSKI FAMILY LP | | X | | |
| KOSKI ROBERT C | | X | | |
| KOSKI THOMAS L | | X | | |

Signatures

Paul R. Lynch, as Attorney-in-Fact for CHRISTINE L. KOSKI, BEVERLY KOSKI, KOSKI FAMILY LIMITED PARTNERSHIP, ROBERT C. KOSKI AND THOMAS L. KOSKI

**Signature of Reporting Person

06/04/2010

Date

Explanation of Responses:

* If the form is filed by more than one reporting person, see Instruction 4(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) Shares owned directly by Koski Family Limited Partnership. Shares owned indirectly by Beverly Koski, Christine L. Koski, Robert C. Koski and Thomas L. Koski, each of whom is a general partner of the partnership or the controlling person of a corporate general partner of the partnership.
- (2) Shares owned directly by Christine L. Koski.
- (3) Shares owned directly by Beverly Koski.
- (4) Shares owned directly by Thomas L. Koski.
- (5) Shares owned indirectly by Beverly Koski.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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