

FORM 4

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

OMB APPROVAL
 OMB Number: 3235-0287
 Estimated average burden
 hours per response... 0.5

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 ROBERT E <small>(Last) (First) (Middle)</small> 1500 WEST UNIVERSITY PARKWAY <small>(Street)</small> SARASOTA, FL 34243 <small>(City) (State) (Zip)</small> | 2. Issuer Name and Ticker or Trading Symbol SUN HYDRAULICS CORP [SNHY] 3. Date of Earliest Transaction (Month/Day/Year) 03/03/2005 4. If Amendment, Date Original Filed(Month/Day/Year) | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input checked="" type="checkbox"/> 10% Owner <small>Officer (give title below) Other (specify below)</small> 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 |
|--|---|--|

Table 1 - 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 | 03/03/2005 | | S | | 22,591 | D | \$ 21 | 2,287,826 | D (1) | |
| Common Stock | 03/03/2005 | | S | | 1,105 | D | \$ 21.01 | 2,286,721 | D (1) | |
| Common Stock | 03/03/2005 | | S | | 1,000 | D | \$ 21.02 | 2,285,721 | D (1) | |
| Common Stock | 03/03/2005 | | S | | 340 | D | \$ 21.10 | 2,285,381 | D (1) | |
| Common Stock | 03/03/2005 | | S | | 100 | D | \$ 21.11 | 2,285,281 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 670 | D | \$ 21.07 | 2,284,611 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 2,000 | D | \$ 21.10 | 2,282,611 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 3,000 | D | \$ 21.15 | 2,279,611 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 4,000 | D | \$ 21.20 | 2,275,611 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 5,000 | D | \$ 21.25 | 2,270,611 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 1,330 | D | \$ 21.35 | 2,269,281 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 900 | D | \$ 21.47 | 2,268,381 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 1,000 | D | \$ 21.50 | 2,267,381 | D (1) | |
| Common Stock | 03/04/2005 | | S | | 100 | D | \$ 21.51 | 2,267,281 | D (1) | |
| Common Stock | 03/07/2005 | | S | | 3,775 | D | \$ 21.54 | 2,263,506 | D (1) | |
| Common Stock | 03/07/2005 | | S | | 1,000 | D | \$ 21.56 | 2,262,506 | D (1) | |
| Common Stock | 03/07/2005 | | S | | 1,425 | D | \$ 21.59 | 2,261,081 | D (1) | |
| Common Stock | 03/07/2005 | | S | | 2,478 | D | \$ 21.60 | 2,258,603 | D (1) | |
| Common Stock | 03/07/2005 | | S | | 60 | D | \$ 22.05 | 2,258,543 | D (1) | |
| Common Stock | | | | | | | | 64,623 | D (2) | |
| Common Stock | | | | | | | | 100,000 | D (3) | |
| Common Stock | | | | | | | | 141,215 | D (4) | |
| Common Stock | | | | | | | | 173 | I (5) | BY ESOP TRUST |

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

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 ROBERT E 1500 WEST UNIVERSITY PARKWAY SARASOTA, FL 34243 | X | X | | |
| KOSKI BEVERLY | | X | | |
| KOSKI FAMILY LP | | X | | |
| KOSKI CHRISTINE L | X | X | | |
| KOSKI ROBERT C | | X | | |
| KOSKI THOMAS L | | X | | |

Signatures

| | | |
|--|--|---------------------|
| Gregory C. Yadley, as Attorney-in-Fact for ROBERT E. KOSKI, BEVERLY KOSKI, KOSKI FAMILY LIMITED PARTNERSHIP, CHRISTINE L. KOSKI, ROBERT C. KOSKI AND THOMAS L. KOSKI | | 03/07/2005 |
| <small>**Signature of Reporting Person</small> | | <small>Date</small> |

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 Robert E. Koski, 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 and solely by Christine L. Koski.

(3) Shares owned directly by Robert E. Koski and indirectly by Beverly Koski, Robert E. Koski's spouse.

(4) Shares owned directly by Beverly Koski and indirectly by Robert E. Koski, Beverly Koski's spouse.

(5) Reflects allocations of shares to Robert E. Koski under the Sun Hydraulics Corporation Employee Stock Ownership Plan.

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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