

# 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 * <b>CARLSON ALLEN J</b> <small>(Last) (First) (Middle)</small> <b>1500 WEST UNIVERSITY PARKWAY</b> <small>(Street)</small> <b>SARASOTA, FL 34243</b> <small>(City) (State) (Zip)</small>	2. Issuer Name and Ticker or Trading Symbol <b>SUN HYDRAULICS CORP [SNHY]</b> 3. Date of Earliest Transaction (Month/Day/Year) <b>03/19/2007</b> 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 type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <b>President, CEO</b> 6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
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**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	03/19/2007		S		4,800	D	\$ 26.0079	53,563	D	
Common Stock	03/19/2007		S		30	D	\$ 26	53,533	D	
Common Stock	03/19/2007		S		1,109	D	\$ 26.1301	52,424	D	
Common Stock	03/19/2007		S		540	D	\$ 26.5326	51,884	D	
Common Stock	03/20/2007		S		400	D	\$ 26.55	51,484	D	
Common Stock	03/20/2007		S		100	D	\$ 26.53	51,384	D	
Common Stock	03/20/2007		S		700	D	\$ 26.3711	50,684	D	
Common Stock	03/20/2007		S		1,619	D	\$ 26.2886	49,065	D	
Common Stock	03/20/2007		S		800	D	\$ 26.1512	48,265	D	
Common Stock	03/20/2007		S		809	D	\$ 26.0755	47,465	D	
Common Stock	03/20/2007		S		10,019	D	\$ 26.0246	37,437	D	
Common Stock	03/20/2007		S		1,600	D	\$ 26.0062	35,837	D	
Common Stock	03/20/2007		S		5,010	D	\$ 25.9652	30,827	D	
Common Stock								3,422	I (1)	BY ESOP TRUST

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)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	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)
						Date Exercisable	Expiration Date					

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CARLSON ALLEN J 1500 WEST UNIVERSITY PARKWAY SARASOTA, FL 34243	X		President, CEO	

## Signatures

Paul R. Lynch, as Attorney-in-Fact for ALLEN J. CARLSON		03/21/2007
<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) Reflects allocations of shares 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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