FORM 4	ŀ
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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).

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

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SEC 1474 (9-

02)

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 Respon	505)										
1. Name and Address CARLSON ALLE	2. Issuer Name and Ticker or Trading Symbol SUN HYDRAULICS CORP [SNHY]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				
1500 WEST UNIV	3. Date of Earliest Transaction (Month/Day/Year) 10/09/2009						X Officer (give title below) Other (specify below) President, CEO				
SARASOTA, FL 3	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(State)	(Zip)	(Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned							Owned	
1.Title of Security (Instr. 3)		Date (Month/Day/Year)	Execution Date, if any	Code (Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Beneficially Owned Following Reported Transaction(s)	Ownership Form:	Beneficial
			(Month/Day/Year)	Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock		10/09/2009		А		7,500	А	\$ 21.07	46,486.0227 ⁽¹⁾	D	
Common Stock									7,243.193	I <u>(2)</u>	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.

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)														
1. Title of	2.	3. Transaction	3A. Deemed	4.	5.1	Numb	er 6. Date E	cercisable	7. Ti	tle and	8. Price of	9. Number of	10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transaction	ı of		and Expir	ation Date	Amo	ount of	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code	De	rivativ	e (Month/E	ay/Year)	Und	erlying	Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)	See	curitie	3			rities	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative				Ac	quired			(Inst	r. 3 and		Owned	Security:	(Instr. 4)
	Security				(A)) or			4)			0	Direct (D)	
						sposed						- F	or Indirect	
						(D)						Transaction(s)	· · /	
						str. 3,						(Instr. 4)	(Instr. 4)	
					4, :	and 5)								
										Amount				
							Date	Evaluation		or				
							Exercisab	Expiration	Title	Number				
								Date		of				
				Code V	(A	(D)			Shares				

Reporting Owners

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

Signatures

Gregory C. Yadley, as Attorney-in-Fact for ALLEN J. CARLSON	10/13/2009	
-**Signature of Reporting Person	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).

Includes 383.972741 shares purchased through the Sun Hydraulics Corporation Employee Stock Purchase Plan during the quarter ended September 26, 2009.
 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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