FORM 4

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

OMB APPROVAL					
OMB Number:	3235-0287				
stimated average burden					
ours per respons	e 0.5				

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 Ty	pe Response	es)													
1. Name and Address of Reporting Person * KAHLER JOHN S				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 UNIVERSITY PARKWAY			3. Date of Earliest Transaction (Month/Day/Year) 09/09/2006								give title below		er (specify below	v)	
			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					
-	OTA, FL 34									•	roini incu	by More than O	ne reporting reise	,ii	
(City	y)	(State)	(Zip)	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)		D	Date Month/Day/Year)	2A. Deemo Execution any (Month/Da	Date, i	(Instr. 8		(A (I	Securities A A) or Dispose D) Instr. 3, 4 and	ed of	Reported Ti		llowing C	Ownership of orm: Birect (D)	Beneficial Ownership
						C	Code	· V A	mount (A)				(r Indirect (I I) Instr. 4)	nstr. 4)
Reminder:	Report on a	separate line for ea	ch class of securitie	es benefici	ally ow	ned d	lirect	Persor contain	s who responed in this	form are	not requi	red to resp	rmation oond unless ol number.	SEC 14	74 (9-02)
			Table II - D						osed of, or B onvertible se		y Owned				
1. Title of Derivative Security (Instr. 3)	Conversion	3. Transaction Date (Month/Day/Year	3A. Deemed Execution Date, any (Month/Day/Yea	, if Transaction Code arr) (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		and Expira	ation Date	7. Title a Amount Underlyi Securitie (Instr. 3	of ing es	Derivative Security (Instr. 5)		Ownership Form of Derivative Security: Direct (D) or Indirect	Beneficial Ownership (Instr. 4)
				Code	V (A) (Date Exercisab	Expiration Date	Title	Amount or Number of Shares				
Stock Units	<u>(1)</u>	09/09/2006		A	Ì	78		(1)	(1)	Commo	1 /X	\$ 19.24	1,060.27	D	

Reporting Owners

Donastina Coman Nama / Addusa		Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
KAHLER JOHN S 1500 WEST UNIVERSITY PARKWAY SARASOTA, FL 34243	X							

Signatures

Paul R. Lynch, as Attorney-in-Fact for JOHN S. KAHLER	09/11/2006
**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).
- Stock Units issued and held for the account of the reporting person under the 2004 Nonemployee Director Equity and Deferred Compensation Plan. In connection with any (1) distribution to the reporting person under the Plan, Stock Units are payable in shares of common stock on a 1 for 1 basis. The reporting person is fully vested in all Stock Units issued to him and held for his account, and there is no expiration date.

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

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