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

SCHEDULE 13G

Under the Securities Exchange Act of 1934  
(Amendment No. \_\_\_)\*

SUN HYDRAULICS CORPORATION

(Name of Issuer)

Common Stock

(Title of Class of Securities)

866942105

(CUSIP Number)

December 31, 2008

(Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- Rule 13d-1(b)
- Rule 13d-1(c)
- Rule 13d-1(d)

\* The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on following page(s))  
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CUSIP No. 866942105

1 NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

Keeley Asset Management Corp.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)

Not Applicable

(a) [ ]  
(b) [ ]

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

Illinois

<b>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:</b>	<b>5</b>	SOLE VOTING POWER	965,000
	<b>6</b>	SHARED VOTING POWER	-0-
	<b>7</b>	SOLE DISPOSITIVE POWER	965,000
	<b>8</b>	SHARED DISPOSITIVE POWER	-0-
	<b>9</b>	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON	965,000 <sup>(1)</sup>
	<b>10</b>	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (SEE INSTRUCTIONS) Not Applicable	[ ]
	<b>11</b>	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)	5.8% <sup>(1)</sup>
	<b>12</b>	TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  IA	

(1) The percent ownership calculated is based upon an aggregate of 16,657,364 shares outstanding as of October 24, 2008.

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<b>1</b>	NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)		
	Keeley Small Cap Value Fund		
<b>2</b>	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (SEE INSTRUCTIONS)	(a) [ ] (b) [ ]	
	Not Applicable		
<b>3</b>	SEC USE ONLY		
<b>4</b>	CITIZENSHIP OR PLACE OF ORGANIZATION		
	Maryland		
<b>NUMBER OF SHARES</b>	<b>5</b>	SOLE VOTING POWER	-0-
	<b>6</b>	SHARED VOTING POWER	

**BENEFICIALLY**

-0-

**OWNED**

7 SOLE DISPOSITIVE POWER

**BY EACH**

-0-

**REPORTING**

8 SHARED DISPOSITIVE POWER

**PERSON WITH:**

-0-

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

965,000<sup>(1)</sup>10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
(SEE INSTRUCTIONS)

Not Applicable

[ ]

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

5.8%<sup>(1)</sup>

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)

IV

(1) The percent ownership calculated is based upon an aggregate of 16,657,364 shares outstanding as of October 24, 2008.

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Item 1(a). Name of Issuer:

Sun Hydraulics Corporation

Item 1(b). Address of Issuer's Principal Executive Offices:1500 West University Parkway  
Sarasota, FL 34243Item 2(a). Name of Person Filing:

The persons filing this Schedule 13G are:

- (i) Keeley Asset Management Corp.
- (ii) Keeley Small Cap Value Fund, a series of Keeley Funds, Inc.

Item 2(b). Address of Principal Business Office or, if none, Residence:(i)-(ii) 401 South LaSalle Street  
Chicago, Illinois 60605Item 2(c). Citizenship:

- (i) Keeley Asset Management Corp. is an Illinois corporation.
- (ii) Keeley Funds, Inc. is a Maryland corporation.

Item 2(d). Title of Class of Securities:

Common Stock

Item 2(e). CUSIP Number:

866942105

Item 3. If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:

Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).

An investment adviser in accordance with section 240.13d-1(b)(1)(ii)(E).

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Item 4. Ownership

Keeley Asset Management Corp.

- (a) Amount Beneficially Owned: 965,000\*
- (b) Percent of Class: 5.8%
- (c) Number of shares as to which such person has:
  - (i) sole power to vote or to direct the vote: 965,000
  - (ii) shared power to vote or to direct the vote: -0-
  - (iii) sole power to dispose or to direct the disposition of: 965,000
  - (iv) shared power to dispose or to direct the disposition of: -0-

Keeley Small Cap Value Fund

- (a) Amount Beneficially Owned: 965,000\*
- (b) Percent of Class: 5.8%
- (c) Number of shares as to which such person has:
  - (i) sole power to vote or to direct the vote: -0-
  - (ii) shared power to vote or to direct the vote: -0-
  - (iii) sole power to dispose or to direct the disposition of: -0-
  - (iv) shared power to dispose or to direct the disposition of: -0-

Item 5. Ownership of Five Percent or Less of a Class.

N/A

Item 6. Ownership of More than Five Percent on Behalf of Another Person.

N/A

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company.

N/A

Item 8. Identification and Classification of Members of the Group.

N/A

\* Keeley Asset Management Corp. and Keeley Small Cap Value Fund share beneficial ownership over the same 965,000 shares.

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Item 9.      Notice of Dissolution of Group.

N/A

Item 10.      Certification.

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

Exhibits.

1.            Agreement to file Schedule 13G jointly.

**SIGNATURE**

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

Date: February 2, 2009

KEELEY ASSET MANAGEMENT CORP.

By: /s/ John L. Keeley, Jr.  
John L. Keeley, Jr., President

KEELEY FUNDS, INC.

By: /s/ John L. Keeley, Jr.  
John L. Keeley, Jr., President

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**EXHIBIT 1**

AGREEMENT dated as of February 2, 2009 by and among Keeley Asset Management Corp., an Illinois corporation, and Keeley Funds, Inc., a Maryland corporation.

WHEREAS, in accordance with Rule 13d-1(k) of the Securities Exchange Act of 1934 (the "Act"), only one such statement need be filed whenever two or more persons are required to file a statement pursuant to Section 13(d) of the Act with respect to the same securities, provided that said persons agree in writing that such statement is filed on behalf of each of them.

NOW, THEREFORE, in consideration of the premises and mutual agreements herein contained, the parties hereto agree as follows:

Keeley Asset Management Corp. and Keeley Funds, Inc. hereby agree, in accordance with Rule 13d-1(k) under the Act, to file one Statement on Schedule 13G relating to their ownership of the Common Stock of Sun Hydraulics Corporation, and hereby further agree that said Statement shall be filed on behalf of Keeley Asset Management Corp. and Keeley Funds, Inc. Nothing herein shall be deemed to be an

admission that the parties hereto, or any of them, are members of a “group” (within the meaning of Section 13(d) of the Act and the rules promulgated thereunder) with respect to any securities of Sun Hydraulics Corporation.

IN WITNESS WHEREOF, the parties have executed this agreement as of the date first written above.

Date: February 2, 2009

KEELEY ASSET MANAGEMENT CORP.

By: /s/ John L. Keeley, Jr.  
John L. Keeley, Jr., President

KEELEY FUNDS, INC.

By: /s/ John L. Keeley, Jr.  
John L. Keeley, Jr., President