

SONEX RESEARCH INC  
Form 4  
December 20, 2004

**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, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
GRUBER & MCBAIN CAPITAL MANAGEMENT LLC

(Last) (First) (Middle)

50 OSGOOD PLACE

(Street)

SAN FRANCISCO, CA 94133

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol

SONEX RESEARCH INC [SONX]

3. Date of Earliest Transaction (Month/Day/Year)

12/16/2004

4. If Amendment, Date Original Filed (Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
\_\_\_ Officer (give title below) \_\_\_ Other (specify below)

6. Individual or Joint/Group Filing (Check Applicable Line)  
\_X\_ Form filed by One Reporting Person  
\_\_\_ Form filed by More than One Reporting Person

**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	12/16/2004		S		122,400	D	\$ 0.05	1,155,293 <sup>(2)</sup>	I
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By Limited Partnerships and Investment Advisory Accounts <sup>(1)</sup>  
<sup>(3)</sup>

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

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SEC 1474 (9-02)

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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 Owned Following Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
GRUBER & MCBAINES CAPITAL MANAGEMENT LLC 50 OSGOOD PLACE SAN FRANCISCO, CA 94133			X	

## Signatures

GRUBER & MCBAINES CAPITAL MANAGEMENT, LLC By: /s/ J. Patterson McBaine, J. Patterson McBaine, Manager 12/20/2004

\_\_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).
- (1) This form is filed by Gruber & McBaine Capital Management, LLC (GMCM), a limited liability company that is an investment adviser for client accounts and a general partner of investment limited partnerships; Jon D. Gruber (Gruber) and J. Patterson McBaine (McBaine), who are managers, members and portfolio managers of GMCM; and Eric B Swergold (Swergold), who is a member and portfolio manager of GMCM.
- (2) This total is the number of shares beneficially owned after the transactions reported in accounts and investment partnerships in which the reporting persons have some pecuniary interest; the total excludes shares held in other client accounts managed by GMCM in which the reporting persons have no pecuniary interest.
- (3) By GMCM, as an investment adviser for client accounts and a general partner of investment partnerships, and by Gruber and McBaine as managers, members and portfolio managers of GMCM, and by Swergold as a member and portfolio manager of GMCM. GMCM, Gruber, McBaine and Swergold have pecuniary interest in those client accounts and partnerships that in the aggregate represent less than the total number of shares shown in Items 4 and 5. Each such reporting person disclaims beneficial ownership of the securities with respect to which indirect beneficial ownership is reported, except to the extent of that reporting persons pro rata pecuniary interest therein.

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.