

SOUTHWALL TECHNOLOGIES INC /DE/  
Form SC 13G  
January 20, 2004

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934

(Amendment No. 1)\*

Southwall Technologies Inc.  
(Name of Issuer)

COMMON STOCK, \$.001 par value  
(Title of Class of Securities)

844909101  
(CUSIP Number)

December 31, 2003  
(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).

1 NAME OF REPORTING PERSON  
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Needham Investment  
Management L.L.C.  
22-3408336

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)   
(b)

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3 SEC USE ONLY  
 4 CITIZENSHIP OR PLACE OF ORGANIZATION  
 Delaware

	5	SOLE VOTING POWER
		None
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER
		763,000 shares
	7	SOLE DISPOSITIVE POWER
		None
	8	SHARED DISPOSITIVE POWER
		763,000 shares

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
 763,000 shares of common stock of the Issuer ("Shares") which  
 consists of 763,000 Shares held by various series of The Needham Funds,  
 Inc. which Needham Investment Management L.L.C. may be deemed to  
 beneficially own by virtue of its position as investment adviser to  
 these series.

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

6.08%

12 TYPE OF REPORTING PERSON

IA

1 NAME OF REPORTING PERSON  
 S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSON The Needham Funds,  
 Inc.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

(a)

(b)

3 SEC USE ONLY  
 4 CITIZENSHIP OR PLACE OF ORGANIZATION  
 Delaware

	5	SOLE VOTING POWER
		None
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	6	SHARED VOTING POWER
		763,000 shares
	7	SOLE DISPOSITIVE POWER
		None

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8 SHARED DISPOSITIVE POWER

763,000 shares

- 9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON  
763,000 shares (includes 728,000 shares beneficially owned by Needham Growth Fund, a series of The Needham Funds, Inc. and 35,000 shares beneficially owned by Needham Small Cap Growth Fund, a series of The Needham Funds, Inc.)
- 10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES  
[ ]
- 11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9  
6.08%
- 12 TYPE OF REPORTING PERSON  
IV

Item 1(a) NAME OF ISSUER:

Southwall Technologies Inc.

Item 1(b) ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

1029 Corporation Way  
Palo Alto, CA 94303

Item 2(a) NAME OF PERSON FILING:

- (i) Needham Investment Management L.L.C.
- (ii) The Needham Funds, Inc.

Item 2(b) Address of Principal Business Office, or if none, residence:

- (i) 445 Park Avenue  
New York, New York 10022
- (ii) 445 Park Avenue  
New York, New York 10022

Item 2(c) CITIZENSHIP:

See Item 4 of the cover pages attached hereto

Item 2(d) TITLE OF CLASS OF SECURITIES:

Common Stock, \$.001 par value

Item 2(e) CUSIP NUMBER:

844909101

Item 3 (i) Needham Investment Management L.L.C. is a registered investment adviser under Section

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203 of the Investment Advisers Act of 1940, as amended.

- (ii) The Needham Funds, Inc. is an investment company registered under Section 8 of the Investment Company Act of 1940, as amended.

Item 4

OWNERSHIP:

- (a) Amount beneficially owned and (b) Percent of Class: See Items 5 through 11 of the cover pages attached hereto. The aggregate amount held by all Reporting Persons is 6.08% (763,000 shares).

This Schedule 13G shall not be construed as an admission that the Reporting Person, either for purposes of Section 13(d) or 13(g) of the Securities Exchange Act of 1934, as amended (the "Act") or for other purposes, is the beneficial owner of any securities covered by this statement.

- (c) See Items 5 through 8 of the cover pages attached hereto

Item 5

OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS:

Not applicable

Item 6

OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:

Not applicable

Item 7

IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not Applicable

Item 8

IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP:

Not Applicable

Item 9

NOTICE OF DISSOLUTION OF GROUP:

Not Applicable

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

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transaction having that purpose or effect.

SIGNATURES

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.

January 16, 2004

NEEDHAM INVESTMENT MANAGEMENT L.L.C.

By: /s/ John C. Michaelson  
Name: John C. Michaelson  
Title: President and Chief  
Executive Officer

THE NEEDHAM FUNDS, INC.

By: /s/ Glen W. Albanese  
Name: Glen W. Albanese  
Title: Chief Financial Officer

Exhibit A

AGREEMENT

The undersigned, Needham Investment Management L.L.C. and The Needham Funds, Inc., agree that the statement to which this exhibit is appended is filed on behalf of each of them.

January 16, 2004

NEEDHAM INVESTMENT MANAGEMENT L.L.C.

By: /s/ John C. Michaelson  
Name: John C. Michaelson  
Title: President and Chief  
Executive Officer

THE NEEDHAM FUNDS, INC.

By: /s/ Glen W. Albanese  
Name: Glen W. Albanese  
Title: Chief Financial Officer