

Edgar Filing: NEEDHAM & CO INC - Form SC 13D/A

NEEDHAM & CO INC
Form SC 13D/A
April 23, 2004

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

SCHEDULE 13D/A
Amendment No. 1
(Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULE 13d-1(a)
AND AMENDMENTS THERETO FILED PURSUANT
TO RULE 13d-2(a)

Southwall Technologies Inc.

(Name of Issuer)

Common Stock, par value \$.001 per share

(Title of Class of Securities)

844909101

(CUSIP Number)

Saul S. Cohen
Proskauder Rose LLP
1585 Broadway
New York, New York 10036
212-969-3000

(Name, Address and Telephone Number of Person Authorized to Receive Notices and
Communications)

December 18, 2003

(Date of Event which Requires Filing of this Statement)

If the filing person has previously filed a statement on Schedule 13G to report the acquisition that is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13(d)-1(f) or 13(d)-1(g), check the following box .

The Information required on 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 the section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

SCHEDULE 13D

CUSIP No. 844909101

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1	NAME OF REPORTING PERSONS Needham & Company, Inc. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)												
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*												
3	SEC USE ONLY												
4	SOURCE OF FUNDS WC												
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)												
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.												
	<table border="1"> <tr> <td>NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</td> <td>7</td> <td>SOLE VOTING POWER 2,023,566</td> </tr> <tr> <td></td> <td>8</td> <td>SHARED VOTING POWER 0</td> </tr> <tr> <td></td> <td>9</td> <td>SOLE DISPOSITIVE POWER 2,023,566</td> </tr> <tr> <td></td> <td>10</td> <td>SHARED DISPOSITIVE POWER 0</td> </tr> </table>	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 2,023,566		8	SHARED VOTING POWER 0		9	SOLE DISPOSITIVE POWER 2,023,566		10	SHARED DISPOSITIVE POWER 0
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 2,023,566											
	8	SHARED VOTING POWER 0											
	9	SOLE DISPOSITIVE POWER 2,023,566											
	10	SHARED DISPOSITIVE POWER 0											
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 2,023,566												
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*												
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 16.13%												
14	TYPE OF REPORTING PERSON* BD												

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SCHEDULE 13D

 CUSIP No. 844909101

1	NAME OF REPORTING PERSONS Needham Management Partners, L.P. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		
3	SEC USE ONLY		
4	SOURCE OF FUNDS WC		
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.		
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 0
		8	SHARED VOTING POWER 700,000
		9	SOLE DISPOSITIVE POWER 0
		10	SHARED DISPOSITIVE POWER 700,000

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11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
700,000

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
5.58%

14 TYPE OF REPORTING PERSON*
PN

SCHEDULE 13D

CUSIP No. 844909101

1 NAME OF REPORTING PERSONS
Needham Emerging Growth Partners, L.P.
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
(Intentionally Omitted)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

3 SEC USE ONLY

4 SOURCE OF FUNDS
WC

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION
U.S.

7 NUMBER OF SHARES BENEFICIALLY OWNED BY SOLE VOTING POWER

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	EACH REPORTING PERSON WITH	0	
		8	SHARED VOTING POWER 300,000
		9	SOLE DISPOSITIVE POWER 0
		10	SHARED DISPOSITIVE POWER 300,000
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON		300,000
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*		
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)		2.39%
14	TYPE OF REPORTING PERSON*		PN

SCHEDULE 13D

CUSIP No. 844909101

1	NAME OF REPORTING PERSONS Needham Contrarian Fund, L.P. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

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3	SEC USE ONLY						

4	SOURCE OF FUNDS WC						

5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)						

6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.						

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 55%;">SOLE VOTING POWER</td> </tr> <tr> <td></td> <td style="text-align: center;">0</td> <td></td> </tr> </table>	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER		0	
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER					
	0						

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">8</td> <td style="width: 55%;">SHARED VOTING POWER 300,000</td> </tr> </table>		8	SHARED VOTING POWER 300,000			
	8	SHARED VOTING POWER 300,000					

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">9</td> <td style="width: 55%;">SOLE DISPOSITIVE POWER 0</td> </tr> </table>		9	SOLE DISPOSITIVE POWER 0			
	9	SOLE DISPOSITIVE POWER 0					

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">10</td> <td style="width: 55%;">SHARED DISPOSITIVE POWER 300,000</td> </tr> </table>		10	SHARED DISPOSITIVE POWER 300,000			
	10	SHARED DISPOSITIVE POWER 300,000					

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 300,000						

12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*						

13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 2.39%						

14	TYPE OF REPORTING PERSON* PN						

SCHEDULE 13D

CUSIP No. 844909101

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1 NAME OF REPORTING PERSONS
Needham Emerging Growth Partners (Caymans), L.P.
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
(Intentionally Omitted)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

3 SEC USE ONLY

4 SOURCE OF FUNDS
WC

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION
U.S.

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER 0
	8	SHARED VOTING POWER 100,000
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 100,000

11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
100,000

12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*

13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
0.80%

14 TYPE OF REPORTING PERSON*

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PN

SCHEDULE 13D

CUSIP No. 844909101

1 NAME OF REPORTING PERSONS
George A. Needham
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
(Intentionally Omitted)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

3 SEC USE ONLY

4 SOURCE OF FUNDS
PF

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION
U.S.

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		30,000

8	SHARED VOTING POWER
	5,000

9	SOLE DISPOSITIVE POWER
	30,000

10	SHARED DISPOSITIVE POWER
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5,000

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 35,000
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 0.28%
14	TYPE OF REPORTING PERSON* IN

SCHEDULE 13D

 CUSIP No. 844909101

1	NAME OF REPORTING PERSONS Needham Capital Partners II, L.P. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*	
3	SEC USE ONLY	
4	SOURCE OF FUNDS WC	
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)	
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.	
	7	SOLE VOTING POWER
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING	0

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PERSON WITH

	8	SHARED VOTING POWER 3,312,406
	9	SOLE DISPOSITIVE POWER 0
	10	SHARED DISPOSITIVE POWER 3,312,406
11		AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,312,406
12		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*
13		PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 20.91%
14		TYPE OF REPORTING PERSON* PN

SCHEDULE 13D

CUSIP No. 844909101

1	NAME OF REPORTING PERSONS Needham Capital Partners II (Bermuda), L.P. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
3	SEC USE ONLY
4	SOURCE OF FUNDS WC

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5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
7	SOLE VOTING POWER 0
8	SHARED VOTING POWER 464,317
9	SOLE DISPOSITIVE POWER 0
10	SHARED DISPOSITIVE POWER 464,317
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 464,317
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 3.57%
14	TYPE OF REPORTING PERSON* PN

SCHEDULE 13D

CUSIP No. 844909101

1 NAME OF REPORTING PERSONS
Needham Capital Partners III, L.P.

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S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
(Intentionally Omitted)

2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*
3	SEC USE ONLY
4	SOURCE OF FUNDS WC
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH
7	SOLE VOTING POWER 0
8	SHARED VOTING POWER 5,798,843
9	SOLE DISPOSITIVE POWER 0
10	SHARED DISPOSITIVE POWER 5,798,843
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 5,798,843
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 31.64%
14	TYPE OF REPORTING PERSON* PN

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SCHEDULE 13D

 CUSIP No. 844909101

 1 NAME OF REPORTING PERSONS
 Needham Capital Partners IIIA L.P.
 S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
 (Intentionally Omitted)

 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

 3 SEC USE ONLY

 4 SOURCE OF FUNDS
 WC

 5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

 6 CITIZENSHIP OR PLACE OF ORGANIZATION
 U.S.

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
	0	

8	SHARED VOTING POWER
	598,878

9	SOLE DISPOSITIVE POWER
	0

10	SHARED DISPOSITIVE POWER
	598,878

 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
 598,878

 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*

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13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
4.56%

14 TYPE OF REPORTING PERSON*
PN

SCHEDULE 13D

CUSIP No. 844909101

1 NAME OF REPORTING PERSONS
Needham Capital Partners III (Bermuda), L.P.
S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
(Intentionally Omitted)

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

3 SEC USE ONLY

4 SOURCE OF FUNDS
WC

5 CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e)

6 CITIZENSHIP OR PLACE OF ORGANIZATION
U.S.

NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER
		0

8	SHARED VOTING POWER
	1,155,727

9	SOLE DISPOSITIVE POWER
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0

	10	SHARED DISPOSITIVE POWER 1,155,727
11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,155,727	
12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*	
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 8.45%	
14	TYPE OF REPORTING PERSON* PN	

SCHEDULE 13D

CUSIP No. 844909101

1	NAME OF REPORTING PERSONS Needham Capital Management L.L.C. S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (Intentionally Omitted)		
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*		
3	SEC USE ONLY		
4	SOURCE OF FUNDS WC		
5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)		
6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.		
	NUMBER OF	7	SOLE VOTING POWER

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SHARES
 BENEFICIALLY
 OWNED BY
 EACH
 REPORTING
 PERSON WITH 0

 8 SHARED VOTING POWER
 9,710,127

 9 SOLE DISPOSITIVE POWER
 0

 10 SHARED DISPOSITIVE POWER
 9,710,127

 11 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
 9,710,127

 12 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*

 13 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)
 43.67%

 14 TYPE OF REPORTING PERSON*
 PN

SCHEDULE 13D

 CUSIP No. 844909101

 1 NAME OF REPORTING PERSONS
 Needham Capital Management (Bermuda) L.L.C.
 S.S. or I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS
 (Intentionally Omitted)

 2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP*

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3	SEC USE ONLY						

4	SOURCE OF FUNDS WC						

5	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2 (d) OR 2 (e)						

6	CITIZENSHIP OR PLACE OF ORGANIZATION U.S.						

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;">NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH</td> <td style="width: 5%; text-align: center;">7</td> <td style="width: 55%;">SOLE VOTING POWER</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> </table>	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER			0
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	7	SOLE VOTING POWER					
		0					

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">8</td> <td style="width: 55%;">SHARED VOTING POWER</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1,620,044</td> </tr> </table>		8	SHARED VOTING POWER			1,620,044
	8	SHARED VOTING POWER					
		1,620,044					

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">9</td> <td style="width: 55%;">SOLE DISPOSITIVE POWER</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">0</td> </tr> </table>		9	SOLE DISPOSITIVE POWER			0
	9	SOLE DISPOSITIVE POWER					
		0					

	<table border="0" style="width: 100%;"> <tr> <td style="width: 40%;"></td> <td style="width: 5%; text-align: center;">10</td> <td style="width: 55%;">SHARED DISPOSITIVE POWER</td> </tr> <tr> <td></td> <td></td> <td style="text-align: center;">1,620,044</td> </tr> </table>		10	SHARED DISPOSITIVE POWER			1,620,044
	10	SHARED DISPOSITIVE POWER					
		1,620,044					

11	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,620,044						

12	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES*						

13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 11.45%						

14	TYPE OF REPORTING PERSON* PN						

Statement on Schedule 13D/A
Pursuant to Rule 13d-1 under the
Securities Exchange Act of 1934, as amended

Item 1. Security and Issuer.

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This Statement on Schedule 13D/A (this "Statement") relates to the common stock, par value \$0.001 per share (the "Common Stock"), of Southwall Technologies Inc., a Delaware corporation (the "Company"). This statement amends the Schedule 13D filed by the Reporting Persons (as hereinafter defined) on March 8, 2004. The principal executive offices of the Company are located at 1029 Corporation Way, Palo Alto, California 94303.

Item 2. Identity and Background.

(a)-(c) and (f) This Statement is filed by Needham & Company, Inc., a Delaware corporation ("Needham & Co."), Needham Management Partners, L.P., a Delaware limited partnership ("NMP"), Needham Emerging Growth Partners, L.P., a Delaware limited partnership ("NEGP"), Needham Contrarian Fund, L.P., a Delaware limited partnership ("NCF"), Needham Emerging Growth Partners (Caymans), L.P., a Cayman Islands limited partnership ("NEGPC"), George A. Needham, a natural person who is a U.S. citizen, Needham Capital Partners II, L.P., a Delaware limited partnership ("NCPII"), Needham Capital Partners II (Bermuda), L.P., a Bermuda limited partnership ("NCPIIB"), Needham Capital Partners III, L.P., a Delaware limited partnership ("NCPIII"), Needham Capital Partners IIIA, L.P., a Delaware limited partnership ("NCPIIIA"), Needham Capital Partners III (Bermuda), L.P., a Bermuda limited partnership ("NCPIIIB"), Needham Capital Management L.L.C., a Delaware limited liability company ("NCM"), and Needham Capital Management (Bermuda) L.L.C., a Bermuda limited liability company ("NCMB"). Needham & Co., NMP, NEGP, NCF, NEGPC, George A. Needham, NCPII, NCPIIB, NCPIII, NCPIIIA, NCPIIIB, NCM and NCMB are collectively referred to in this Statement as the "Reporting Persons."

The principal business office and mailing address of the Reporting Persons is c/o Needham & Company, Inc., 445 Park Avenue, New York, New York 10022. Needham & Co. is an investment banking, securities and asset management firm. The business of NMP is serving as the general partner of NEGP, NCF and NEGPC, each of which are private investment partnerships. The business of NCM is serving as the general partner of NCPII, NCPIII and NCPIIIA, each of which are private investment partnerships. The business of NCMB is serving as the general partner of NCPIIB and NCPIIIB, each of which are private investment partnerships. The present principal occupation of George A. Needham is Chairman of the Board and Chief Executive Officer of Needham & Co. The name and principal occupation or employment of the executive officers, directors or general partners of the Reporting Persons who are corporations, limited partnerships and limited liability companies are set forth on Schedule I to this Statement.

(d) and (e) During the past five years, none of the Reporting Persons or, to the best knowledge of the Reporting Persons, any of the persons listed on Schedule I, (i) has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors) or

(ii) has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree or final order enjoining future violations of, or prohibiting or mandating activities subject to, Federal or State securities laws or finding any violation with respect to such laws.

Item 3. Source and Amount of Funds or Other Consideration.

The Schedule 13D filed by the Reporting Person on March 8, 2004 reported the issuance by the Company to the Reporting Persons of warrants to purchase shares of Common Stock and Secured Convertible Promissory Notes ("Notes") pursuant to an Investment Agreement by and among the Company, certain of the Reporting Persons and Dolphin Direct Equity Partners, L.P., (collectively, the

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"Investor Parties") which agreement was subsequently amended and restated, as more fully described in the Schedule 13D (the "Investment Agreement").

Pursuant to Section 4.14 of the Investment Agreement, if, as part of its restructuring efforts, the Company issues any equity or warrants, options, rights or other instruments exercisable or convertible into equity, to any creditor, landlord, employee, director, agent or consultant, then the Company is required to issue additional warrants to any Investor Parties who at the time of such issuance had pursuant to the Investment Agreement provided loan guaranties to the Company or purchased Secured Convertible Promissory Notes from the Company in such amounts as would allow the Investor Parties to maintain their aggregate ownership percentage (on a fully-diluted basis) as if such issuance had not occurred. Section 4.14 of the Investment Agreement also provides that if, as part of the Company's restructuring efforts, the Company issues notes or other debt instruments to any of its creditors, then it is required to issue additional warrants to such Investor Parties representing the right to purchase that number of shares of Common Stock equal to the product of (x) 1.25 and (y) the original principal amount of such note or debt instrument.

The Reporting Persons inadvertently omitted to report the transactions described below in the Schedule 13D relating to warrants issued to Needham & Co. pursuant to the Investment Agreement.

On December 18, 2003, Needham & Co. entered into an agreement (the "Needham/Dolphin Agreement") with Dolphin Direct Equity Partners, L.P. ("Dolphin") pursuant to which Dolphin agreed to provide funds in connection with the loan guaranty provided by Needham & Co. to the Company and Needham & Co. agreed to transfer to Dolphin one-third of the warrants issued to Needham & Co. by the Company in connection with such loan guaranty, including warrants issued pursuant to the anti-dilution rights set forth in Section 4.14 of the Investment Agreement. Pursuant to the Needham/Dolphin Agreement, Needham & Co. transferred to Dolphin, at Needham's cost, warrants exercisable for 313,705 shares of Common Stock at an exercise price of \$0.01 per share issued to Needham on December 18, 2003, which warrants constituted a portion of the warrant for 941,155 shares of Common Stock issued to Needham & Co. pursuant to the Investment Agreement on December 18, 2003 (which warrant is described in a Schedule 13D filed by Needham & Co. on December 29, 2003), as well as the warrants described below issued by the Company to Needham & Co. pursuant to Section 4.14 of the Investment Agreement.

On December 18, 2003, the Company and Pacific Business Funding, a division Greater Bay Bank, N.A. ("PBF"), entered into a Forbearance Agreement in which PBF agreed to forbear until May 5, 2004 from pursuing its remedies pursuant to certain defaults by the Company under a factoring line of credit previously entered into between the parties. In connection with the execution of the Forbearance Agreement, the Company issued PBF a warrant to purchase a total of 250,000 shares of Common Stock at an exercise price of \$0.01 per share. Additionally, on December 18, 2003, the Company's directors were issued options exercisable for 56,461 shares of Common Stock in lieu of cash fees for attendance at Board meetings. As a result of these issuances, pursuant to Section 4.14 of the Investment Agreement, the Company issued to Needham & Co. warrants to purchase a total of 26,551 shares of common stock at an exercise price of \$0.01 per share. Pursuant to the Needham/Dolphin Agreement, Needham & Co. then transferred warrants exercisable for 5,772 shares of Common Stock to Dolphin at Needham's cost.

On January 15, 2004, the Company issued to Needham & Co. a warrant to purchase 941,115 shares of Common Stock at an exercise price of \$0.01 per share

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(the "January 2004 Warrant"). The January 2004 Warrant was issued to Needham & Co. pursuant to the terms of the Investment Agreement in consideration for providing a loan guaranty. Pursuant to the Needham/Dolphin Agreement, Needham & Co. then transferred warrants exercisable for 313,705 shares of Common Stock to Dolphin at Needham's cost.

On January 19, 2004, PBF consented to a guarantee by Southwall Europe GmbH of the obligation owed by the Company to Teijin Limited pursuant to a Guaranteed Loan Agreement. In connection with the consent, the Company issued PBF a warrant to purchase a total of 75,000 shares of common stock at an exercise price of \$0.01 per share. As a result of this issuance, pursuant to Section 4.14 of the Investment Agreement, the Company issued to Needham & Co. warrants to purchase a total of 10,082 shares of common stock at an exercise price of \$0.01 per share. Pursuant to the Needham/Dolphin Agreement, Needham & Co. then transferred warrants exercisable for 2,649 shares of Common Stock to Dolphin at Needham's cost.

On January 30, 2004 PBF agreed to amend the Forbearance Agreement to allow for changes to the Investment Agreement. In connection with the amendment, the Company issued to PBF a warrant to purchase a total of 35,000 shares of Common Stock at an exercise price of \$0.01 per share. As a result of this issuance, pursuant to Section 4.14 of the Investment Agreement, the Company issued to Needham & Co. warrants to purchase a total of 4,702 shares of Common Stock at an exercise price of \$0.01 per share. Pursuant to the Needham/Dolphin Agreement, Needham & Co. then transferred warrants exercisable for 1,235 shares of Common Stock to Dolphin at Needham's cost.

Item 4. Purpose of Transaction.

The Investment Agreement pursuant to which the warrants were issued to Needham & Co. is described in the 13D filed by the Reporting Persons on March 8, 2003.

Other than as specified in this Item 4, the Reporting Persons have no plans or proposals which relate to or which would result in or relate to any of the actions specified in paragraphs (a) through (j) of Item 4 of Schedule 13D.

Item 5. Interest in Securities of the Issuer.

(a) (1) Needham & Co. owns of record and beneficially 737,067 shares of Common Stock and the warrants described in item 3 above, which are immediately exercisable for an aggregate of 1,286,499 shares of Common Stock. Assuming the full exercise of the warrants, Needham & Co. would own of record 2,023,566 shares of Common Stock, which would constitute 16.13% of the issued and outstanding Common Stock.

(2) NEGP owns of record and beneficially 300,000 shares of Common Stock, which constitutes 2.39% of the issued and outstanding Common Stock.

(3) NCF owns of record and beneficially 300,000 shares of Common Stock, which constitutes 2.39% of the issued and outstanding Common Stock.

(4) NEGPC owns of record and beneficially 100,000 shares of Common Stock, which constitutes 0.80% of the issued and outstanding Common Stock.

(5) NMP may be deemed to own beneficially the aggregate amount of 700,000

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shares of Common Stock owned by NEGP, NCF and NEGPC by virtue of its position as general partner of those Reporting Persons, which amount constitutes 5.58% of the issued and outstanding Common Stock. NMP disclaims beneficial ownership of all of the reported shares of Common Stock owned by NEGP, NCF and NEGPC, and the inclusion of these shares of Common Stock in this report shall not be deemed an admission by it of beneficial ownership of such shares for any purpose.

(6) George A. Needham owns of record and beneficially 30,000 shares of Common Stock. He also may be deemed to beneficially own (i) the shares of Common Stock and the warrants owned by Needham & Co. by virtue of his position in and share ownership of Needham & Co., (ii) the shares of Common Stock owned by NEGP, NCF and NEGPC by virtue of his position as general partner of NMP, the general partner of NEGP, NCF and NEGPC, (iii) the Notes and warrants owned by NCPII, NCPIII and NCPIIIA by virtue of his position as a manager of NCM, the general partner of NCPII, NCPIII and NCPIIIA, (iv) the Notes and warrants owned by NCPIIB and NCPIIIB by virtue of his position as a manager of NCMB, and (v) 5,000 shares of Common Stock owned by family members of Mr. Needham. The aggregate amount of shares of Common Stock owned by Mr. Needham and his family members is 35,000, which constitutes 0.28% of the issued and outstanding shares of Common Stock. Mr. Needham disclaims beneficial ownership of all of the reported shares of Common Stock and the warrants, except the shares of Common Stock he owns of record, and the inclusion of these shares in this report shall not be deemed an admission by him of beneficial ownership for any purpose.

(7) NCPII owns of record and beneficially (i) a Note in the principal amount of \$877,058, which is convertible to 877,058 shares of Preferred Stock, which in turn is

convertible to 877,058 shares of Common Stock, subject to adjustments applicable to the Note and Preferred Stock, and (ii) a Warrant which is exercisable for 2,435,348 shares of Common Stock.

(8) NCPIIB owns of record and beneficially (i) a Note in the principal amount of \$122,942, which is convertible to 122,942 shares of Preferred Stock, which in turn is convertible to 122,942 shares of Common Stock, subject to adjustments applicable to the Note and Preferred Stock, and (ii) a Warrant which is exercisable for 341,375 shares of Common Stock.

(9) NCPIII owns of record and beneficially (i) a Note in the principal amount of \$1,535,416, which is convertible to 1,535,416 shares of Preferred Stock, which in turn is convertible to 1,535,416 shares of Common Stock, subject to adjustments applicable to the Note and Preferred Stock, and (ii) a Warrant which is exercisable for 4,263,427 shares of Common Stock.

(10) NCPIIIA owns of record and beneficially (i) a Note in the principal amount of \$158,571, which is convertible to 158,571 shares of Preferred Stock, which in turn is convertible to 158,571 shares of Common Stock, subject to adjustments applicable to the Note and Preferred Stock, and (ii) a Warrant which is exercisable for 440,307 shares of Common Stock.

(11) NCPIIIB owns of record and beneficially (i) a Note in the principal amount of \$306,013, which is convertible to 306,013 shares of Preferred Stock, which in turn is convertible to 306,013 shares of Common Stock, subject to adjustments applicable to the Note and Preferred Stock, and (ii) a Warrant which is exercisable for 849,714 shares of Common Stock.

(12) NCM may be deemed to own beneficially the Notes and warrants owned by

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NCPII, NCPIII and NCPIIIA by virtue of its position as general partner of those Reporting Persons, and accordingly may be deemed to beneficially own the 9,710,127 shares of Common Stock underlying those convertible securities, which amount constitute 43.67% of the issued and outstanding Common Stock. NCM disclaims beneficial ownership of all of the reported shares of Common Stock underlying the Notes and warrants owned by NCPII, NCPIII and NCPIIIA, and the inclusion of these shares of Common Stock in this report shall not be deemed an admission by it of beneficial ownership of such shares for any purpose.

(13) NCMB may be deemed to own beneficially the Notes and warrants owned by NCPIIB and NCPIIIB by virtue of its position as general partner of those Reporting Persons, and accordingly may be deemed to beneficially own the 1,620,044 shares of Common Stock underlying those convertible securities, which amount constitute 11.45% of the issued and outstanding Common Stock. NCMB disclaims beneficial ownership of all of the reported shares of Common Stock underlying the Notes and warrants owned by NCPIIB and NCPIIIB, and the inclusion of these shares of Common Stock in this report shall not be deemed an admission by it of beneficial ownership of such shares for any purpose.

(b) Needham & Co. has the sole power to direct the vote and disposition of 737,067 shares of Common Stock directly owned by it, and, assuming the exercise of the Warrants in full, Needham & Co. will have the sole power to direct the vote and disposition of 1,286,499 shares of Common Stock issuable upon the exercise of the Warrants. NMP, the general partner of NEGP, and NEGP have shared power to direct the vote and disposition of 300,000 shares of Common Stock directly owned by NEGP. NMP, the general partner of NCF, and NCF have shared power to direct the vote and disposition of 300,000 shares of Common Stock directly owned by NCF. NMP, the general partner of NEGPC, and NEGPC have shared power to direct the vote and disposition of 100,000 shares of Common Stock directly owned by NEGPC. NCM, the general partner of NCPII, and NCPII have shared power to direct the vote and disposition of 3,312,406 shares of Common Stock issuable upon the conversion of the Note (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Note into shares of Common Stock) and the exercise of the Warrant owned by NCPII. NCMB, the general partner of NCPIIB, and NCPIIB have shared power to direct the vote and disposition of 464,317 shares of Common Stock issuable upon the conversion of the Note (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Note into shares of Common Stock) and the exercise of the Warrant owned by NCPIIB. NCM, the general partner of NCPIII, and NCPIII have shared power to direct the vote and disposition of 5,798,843 shares of Common Stock issuable upon the conversion of the Note (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Note into shares of Common Stock) and the exercise of the Warrant owned by NCPIII. NCM, the general partner of NCPIIIA, and NCPIIIA have shared power to direct the vote and disposition of 598,878 shares of Common Stock issuable upon the conversion of the Note (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Note into shares of Common Stock) and the exercise of the Warrant owned by NCPIIIA. NCMB, the general partner of NCPIIIB, and NCPIIIB have shared power to direct the vote and disposition of 1,155,727 shares of Common Stock issuable upon the conversion of the Note (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Note into shares of Common Stock) and the exercise of the Warrant owned by NCPIIIB. George A. Needham has the sole power to direct the vote and disposition of 30,000 shares of Common Stock directly owned by him. Mr. Needham has shared power to direct the vote of 5,000 shares of Common Stock owned directly by members of his immediate family. George A. Needham may be deemed to have shared power to direct the vote and disposition of (i) the shares of Common Stock owned by Needham & Co., and the shares of Common Stock issuable upon

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exercise of the warrants owned by Needham & Co., by virtue of his position in and share ownership of Needham & Co., (ii) the shares of Common Stock owned directly by NEGP, NCF and NEGPC because he serves as managing general partner of NMP, the general partner of NEGP, NCF and NEGPC, (iii) the shares of Common Stock issuable upon the conversion of the Notes (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Notes into shares of Common Stock) and the exercise of the warrants owned directly by NCPII, NCPIII and NCPIIIA because he serves as a manager of NCM, the general partner of NCPII, NCPIII and NCPIIIA, and (iv) the shares of Common Stock issuable upon the conversion of the Notes (assuming the simultaneous conversion of the shares of Series A Preferred Stock underlying the Notes into shares of Common Stock) and the exercise of the warrants owned directly by NCPIIB and NCPIIIB because he serves

as a manager of NCMB, the general partner of NCPIIB and NCPIIIB. Mr. Needham disclaims beneficial ownership of the shares of Common Stock owned by Needham & Co., NEGP, NCF, NEGPC, NCPII, NCPIIB, NCPIII, NCPIIIA and NCPIIIB.

(c) Except as noted above, the Reporting Persons did not effect any transactions in the securities of the Company during the past 60 days.

(d) and (e) Not applicable.

Item 6. Contracts, Arrangements, Understandings or Relationships with respect to Securities of the Issuer.

Other than as described in Item 4 above, to the knowledge of the Reporting Persons, there are no contracts, arrangements, understandings or relationships (legal or otherwise) among the persons named in Item 2 with respect to any securities of the Company.

Item 7. Material to be Filed as Exhibits.

1. Joint Filing Agreement

SIGNATURE

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

Dated: April 23, 2004

NEEDHAM & COMPANY, INC.

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By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: Chief Financial Officer

/s/ George A. Needham

George A. Needham

NEEDHAM EMERGING GROWTH PARTNERS, L.P.

By: Needham Management Partners, L.P.,
its general partner

By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CONTRARIAN FUND, L.P.

By: Needham Management Partners, L.P.,
its general partner

By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM EMERGING GROWTH PARTNERS (CAYMANS), L.P.

By: Needham Management Partners, L.P.,
its general partner

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By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM MANAGEMENT PARTNERS, L.P.

By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS II, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS II (BERMUDA), L.P.

By: Needham Capital Management (Bermuda) L.L.C.,
its general partner

By: /s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

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NEEDHAM CAPITAL PARTNERS III, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS IIIA, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS III (BERMUDA), L.P.

By: Needham Capital Management (Bermuda) L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL MANAGEMENT, L.L.C.

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By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL MANAGEMENT (BERMUDA), L.L.C.

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

Schedule I

Executive Officers and Directors of Needham & Company, Inc.

Name Of Officer Or Director	Business Address	Principal Emp Needham &
-----	-----	-----
George A. Needham	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Chairman of the Board
John C. Michaelson	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	President of Needham
John J. Prior, Jr.	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Co
Chad W. Keck	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Co
Warren M. Foss	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, In
Vincent J. Keney	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, OT

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Theodor J. Kundtz	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Eq
Glen W. Albanese	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Ch
Andre R. Horn	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Chairman Emeritus
Edgar F. Heizer, Jr.	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Director Chairman of the Board
Eugene R. White	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Director
Joseph H. Reich	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Director Managing General Part

Schedule I

Needham Management Partners, L.P. is the sole general partner of: (a) Needham Emerging Growth Partners, L.P., (b) Needham Contrarian Fund, L.P., and (c) Needham Emerging Growth Partners (Caymans), L.P. Needham Capital Management L.L.C. is the sole general partner of (a) Needham Capital Partners II, L.P., (b) Needham Capital Partners III, L.P. and (c) Needham Capital Partners IIIA, L.P. Needham Capital Management (Bermuda) L.L.C. is the sole general partner of (a) Needham Capital Partners II (Bermuda), L.P. and (b) Needham Capital Partners III (Bermuda), L.P.

The general partners of Needham Management Partners, L.P. are:

Name Of Officer Or Director -----	Business Address -----	Principal Emp Needham & -----
George A. Needham	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Chairman of the Board
John C. Michaelson	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	President of Needham
Jane K. Kloppenburg	c/o Needham & Company, Inc.	Managing Director, Po

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445 Park Avenue
New York, New York 10022

Glen W. Albanese

c/o Needham & Company, Inc.
445 Park Avenue
New York, New York 10022

Managing Director, Ch

The general partners of Needham Capital Management L.L.C. are:

Name Of Officer Or Director -----	Business Address -----	Principal Emp Needham -----
George A. Needham	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Chairman of the Board
John C. Michaelson	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	President of Needham
John J. Prior, Jr.	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Co
Thomas P. Shanahan	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Ne

Name Of Officer Or Director -----	Business Address -----	Principal Emp Needham -----
Glen W. Albanese	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Ch

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The general partners of Needham Capital Management (Bermuda) L.L.C. are:

Name Of Officer Or Director -----	Business Address -----	Principal Emp Needham & -----
George A. Needham	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Chairman of the Board
John C. Michaelson	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	President of Needham
John J. Prior, Jr.	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Co
Thomas P. Shanahan	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Ne
Glen W. Albanese	c/o Needham & Company, Inc. 445 Park Avenue New York, New York 10022	Managing Director, Ch

EXHIBIT 1

JOINT FILING AGREEMENT

In accordance with Rule 13d-1(f) promulgated under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree to the joint filing with all other Reporting Persons (as such term is defined in the Schedule 13D referred to below) on behalf of each of them of a statement on Schedule 13D (including amendments thereto) with respect to the common shares of beneficial interest, par value \$.001 per share, of Southwall Technologies Inc., a Delaware corporation, and that this Agreement may be included as an Exhibit to such joint filing. This Agreement may be executed in any number of counterparts, all of which taken together shall constitute one and the same instrument.

IN WITNESS WHEREOF, the undersigned hereby execute this Agreement as of the 23rd day of April, 2004.

NEEDHAM & COMPANY, INC.

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By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: Chief Financial Officer

/s/ George A. Needham

George A. Needham

NEEDHAM EMERGING GROWTH PARTNERS, L.P.

By: Needham Management Partners, L.P.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CONTRARIAN FUND, L.P.

By: Needham Management Partners, L.P.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM EMERGING GROWTH PARTNERS (CAYMANS), L.P.

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By: Needham Management Partners, L.P.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM MANAGEMENT PARTNERS, L.P.

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS II, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS II (BERMUDA), L.P.

By: Needham Capital Management (Bermuda) L.L.C.,
its general partner

By: /s/ Glen W. Albanese

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Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS III, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS IIIA, L.P.

By: Needham Capital Management L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL PARTNERS III (BERMUDA), L.P.

By: Needham Capital Management (Bermuda) L.L.C.,
its general partner

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

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NEEDHAM CAPITAL MANAGEMENT, L.L.C.

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner

NEEDHAM CAPITAL MANAGEMENT (BERMUDA), L.L.C.

By:/s/ Glen W. Albanese

Name: Glen W. Albanese
Title: General Partner