

NANOPHASE TECHNOLOGIES CORPORATION  
Form SC 13G/A  
February 11, 2003

UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION  
WASHINGTON, DC 20549

SCHEDULE 13G/A

UNDER THE SECURITIES EXCHANGE ACT OF 1934  
(Amendment No. 5)  
Nanophase Technologies Corporation

-----  
(Name of Issuer)  
Common Stock, \$.01 par value

-----  
(Title of Class Securities)  
630079101

-----  
(CUSIP Number)

December 31, 2002

-----  
(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)  
/X/ 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  
disclosures provided in a prior cover page.

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 that  
section of the Act but shall be subject to all other  
provisions of the Act (however, see the Notes).

SCHEDULE 13G/A  
CUSIP NO. 630079101 PAGE 2 OF 7 PAGES

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Grace Brothers, Ltd.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See  
Instructions)  
(a) /X/  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

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Illinois Limited Partnership

	5	SOLE VOTING POWER
NUMBER OF SHARES		
BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY		1,948,593 SHARES
EACH		
REPORTING	7	SOLE DISPOSITIVE POWER
PERSON		
WITH	8	SHARED DISPOSITIVE POWER
		1,948,593 SHARES

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
1,948,593 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
12.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
PN

SCHEDULE 13G/A  
CUSIP NO. 630079101 PAGE 3 OF 7 PAGES

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Grace Investments, Ltd.

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See  
Instructions)  
(a) /X/  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
Illinois Limited Partnership

	5	SOLE VOTING POWER
NUMBER OF SHARES		
BENEFICIALLY	6	SHARED VOTING POWER
OWNED BY		1,069,750 SHARES
EACH		
REPORTING	7	SOLE DISPOSITIVE POWER
PERSON		
WITH	8	SHARED DISPOSITIVE POWER
		1,069,750 SHARES

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
1,069,750 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

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11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
7.1%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
PN

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CUSIP NO. 630079101 PAGE 4 OF 7 PAGES

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Bradford T. Whitmore

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See  
Instructions)  
(a) /X/  
(b) / /

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION  
United States

	5 SOLE VOTING POWER
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	451,286 SHARES 6 SHARED VOTING POWER 3,018,343 SHARES 7 SOLE DISPOSITIVE POWER 451,286 SHARES 8 SHARED DISPOSITIVE POWER 3,018,343 SHARES

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
3,469,629 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
22.9%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
IN

SCHEDULE 13G/A  
CUSIP NO. 630079101 PAGE 5 OF 7 PAGES

1 NAME OF REPORTING PERSON  
S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON  
Spurgeon Corporation

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See  
Instructions)  
(a) /X/  
(b) / /

3 SEC USE ONLY

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4 CITIZENSHIP OR PLACE OF ORGANIZATION  
Illinois Corporation

5 SOLE VOTING POWER  
NUMBER OF  
SHARES  
BENEFICIALLY OWNED BY EACH  
REPORTING PERSON 6 SHARED VOTING POWER  
3,018,343 SHARES  
7 SOLE DISPOSITIVE POWER  
8 SHARED DISPOSITIVE POWER  
3,018,343 SHARES

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON  
3,018,343 SHARES

10 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES  
CERTAIN SHARES / /

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)  
19.98%

12 TYPE OF REPORTING PERSON (SEE INSTRUCTIONS)  
CO

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Item 1.

(a) Name of Issuer

Nanophase Technologies Corporation

(b) Address of Issuer's Principal Executive Offices

453 Commerce St., Burr Ridge, IL 60521

Item 2.

(a) Name of Person Filing

The statement is filed by Grace Brothers, Ltd., an Illinois limited partnership ("Grace") and Grace Investments, Ltd., an Illinois limited partnership ("Grace Investments"). Bradford T. Whitmore ("Whitmore") and Spurgeon Corporation ("Spurgeon") are the general partners of Grace and Grace Investments.

(b) Address of Principal Business Office or, if none, Residence

The business address of Grace, Grace Investments and Whitmore is 1560 Sherman Avenue, Suite 900, Evanston, Illinois 60201. The business of Spurgeon is 290 South County Farm Road, Third Floor, Wheaton, Illinois 60187.

(c) Citizenship

United States

(d) Title of Class of Securities

Common Stock, \$.01 par value

(e) CUSIP Number

630079101

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Item 3. Not Applicable

Item 4. Ownership

(a) Amount beneficially owned

3,469,629

(b) Percent of class

22.9%

(c) Number of shares as to which the person has:

(i) Sole power to vote or to direct the vote

Whitmore: 451,286 shares

(ii) Shared power to vote or to direct the vote

Grace: 1,948,593 shares (with Whitmore and Spurgeon)

Grace Investments: 1,069,750 shares (with Whitmore and Spurgeon)

Whitmore: 3,469,629 shares (with Grace, Grace Investments and Spurgeon)

Spurgeon: 3,018,343 shares (with Grace, Grace Investments and Whitmore)

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(iii) Sole power to dispose or to direct the disposition of

Whitmore: 451,286 shares

(iv) Shared power to dispose or to direct the disposition of

Grace: 1,948,593 shares (with Whitmore and Spurgeon)

Grace Investments: 1,069,750 shares (with Whitmore and Spurgeon)

Whitmore: 3,469,629 shares (with Grace, Grace Investments and Spurgeon)

Spurgeon: 3,018,343 shares (with Grace, Grace Investments and Whitmore)

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

No other person is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, such securities.

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

Reporting person is not a parent holding company.

Item 8. Identification and Classification of Members of

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the Group

Reporting person is not a member of a group.

Item 9. Notice of Dissolution of Group

Reporting person is not filing notice of dissolution of a group.

Item 10. Certification

By signing below the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above 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.

SIGNATURE

After reasonable inquiry and to the best of its knowledge and Belief, the undersigned certifies that the information set forth in this Statement is true, complete and correct.

Dated: February 11, 2003

Grace Brothers, Ltd.

By: /s/ Bradford T. Whitmore  
Name: Bradford T. Whitmore  
Its: General Partner

Grace Investments, Ltd.

By: /s/ Bradford T. Whitmore  
Name: Bradford T. Whitmore  
Its: General Partner

Bradford T. Whitmore

By: /s/ Bradford T. Whitmore  
Name: Bradford T. Whitmore

Spurgeon Corporation

By: /s/ David Allen  
Name: David Allen  
Its: Vice President