W R GRACE & CO Form SC 13G September 02, 2004

SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

INFORMATION STATEMENT PURSUANT TO RULES 13d-1 AND 13d-2 UNDER THE SECURITIES EXCHANGE ACT OF 1934

W. R. Grace & Co.
(NAME OF ISSUER)

Common Stock, \$0.01 par value (TITLE OF CLASS OF SECURITIES)

38388F108 (CUSIP NUMBER)

August 24, 2004 (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)

(Page 1 of 16 Pages)

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).

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.....

(1) NAME OF REPORTING PERSON
S.S. OR I.R.S. IDENTIFICATION NO.
OF ABOVE PERSON

^{*} 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.

	Ardsl	ey P	artners Fund II, L.P.					
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP **			ς		[] [x]		
(3)	SEC USE ONLY							
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION Delaware							
NUMBER OF		(5)	SOLE VOTING POWER 0					
		(6)	6) SHARED VOTING POWER 1,252,500					
EACH		(7)	SOLE DISPOSITIVE POWER 0					
REPORTING PERSON WI		(8)	SHARED DISPOSITIVE POWER 1,252,500					
(9)		CH F	AMOUNT BENEFICIALLY OWNED REPORTING PERSON					
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ** []							
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 1.9%							
(12)	TYPE	OF F	EPORTING PERSON **					
			** SEE INSTRUCTIONS BEFORE FILLING OUT!					
CUSIP No.	38388	3F108	13G	PAGE	3 of 1	6 PAGES		
(1)	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Ardsley Partners Institutional Fund, L.P.							
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP ** (a) [] (b) [x]					[]		
(3)	SEC U	JSE C	ONLY					

(4)	CITIZEN: Delaware		DF ORGANIZATION			
NUMBER OF	(5)) SOLE VOTING	POWER			
) SHARED VOTIN	NG POWER			
OWNED BY EACH) SOLE DISPOSI	ITIVE POWER			
REPORTING		0				
PERSON WITH (8) SHARED DISPOSITIVE 610,000			OSITIVE POWER			
(9)		TE AMOUNT BENER REPORTING PERS				
(10)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ** []					
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.9%					
(12)	TYPE OF PN	REPORTING PERS	SON **			
		** SEE INST	FRUCTIONS BEFORE	FILLING OUT!		
CUSIP No.	38388F1	08	13G		PAGE 4 of 16 PAGES	
(1)	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Ardsley Offshore Fund Ltd.					
(2)	CHECK TI	HE APPROPRIATE	BOX IF A MEMBER	OF A GROUP **	(a) [] (b) [x]	
(3)	SEC USE	ONLY				
(4)		SHIP OR PLACE (Virgin Islands				
NUMBER OF	(5)) SOLE VOTING				

SHARES BENEFICIALLY (6) SHARED VOTING POWER 1,820,000 OWNED BY (7) SOLE DISPOSITIVE POWER REPORTING PERSON WITH (8) SHARED DISPOSITIVE POWER 1,820,000 (9) AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,820,000 (10) CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ** (11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 2.8% (12) TYPE OF REPORTING PERSON ** CO ______ ** SEE INSTRUCTIONS BEFORE FILLING OUT! CUSIP No. 38388F108 PAGE 5 of 16 PAGES 13G (1) NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Ardsley Advisory Partners (2) CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP ** (a) [] (b) [x] _____ (3) SEC USE ONLY (4) CITIZENSHIP OR PLACE OF ORGANIZATION Connecticut _____ NUMBER OF (5) SOLE VOTING POWER 0 SHARES BENEFICIALLY (6) SHARED VOTING POWER 3,750,000 OWNED BY

EACH		(7)	SOLE DISPOSITIVE POWER					
REPORTING								
PERSON WITH		(8)	SHARED DISPOSITIVE POWER 3,750,000					
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,750,000							
(10)		CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES ** []						
(11)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.7%							
(12)		OF R	EPORTING PERSON ** IA					
			** SEE INSTRUCTIONS BEFORE FILLING OUT!					
CUSIP No.	38388	F108	13G	PAGE	6 of	16 PAGES		
(1)	(1) NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Ardsley Partners I							
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP ** (a) [] (b) [x]							
(3)	(3) SEC USE ONLY							
(4)	CITIZENSHIP OR PLACE OF ORGANIZATION Connecticut							
NUMBER OF		(5)	SOLE VOTING POWER 0					
		(6)	SHARED VOTING POWER					
OWNED BY			1,862,500					
EACH		(7)	SOLE DISPOSITIVE POWER 0					
REPORTING								
PERSON WITH		(8)	SHARED DISPOSITIVE POWER 1,862,500					

(9)		CH R	AMOUNT BENEFICIALLY (EPORTING PERSON	DWNED			
(10)			IF THE AGGREGATE AMOU EXCLUDES CERTAIN SHA		[]		
(11)			F CLASS REPRESENTED IN ROW (9)				
(12)		OF R	EPORTING PERSON **				
			** SEE INSTRUCTIONS	BEFORE FILLING	OUT!		
CUSIP No.	38388	3F108		13G	PAGE 7 of 16 PAG	ES	
(1)	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Philip J. Hempleman						
(2)	CHEC	THE	APPROPRIATE BOX IF A	MEMBER OF A GRO	UP ** (a) [] (b) [x]		
(3)	SEC U	JSE O	NLY				
(4)	CITIZ Unite		IP OR PLACE OF ORGANIZ	ZATION			
NUMBER OF		(5)	SOLE VOTING POWER 0				
BENEFICIA	LLY	(6)	SHARED VOTING POWER 3,750,000				
EACH		(7)	SOLE DISPOSITIVE POWE	IR			
REPORTING							
PERSON WI	TH	(8)	SHARED DISPOSITIVE PO	DWER			
(9)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 3,750,000						
(10)			IF THE AGGREGATE AMOU EXCLUDES CERTAIN SHA		[]		

(11) PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 5.7%

(12) TYPE OF REPORTING PERSON **
IN

** SEE INSTRUCTIONS BEFORE FILLING OUT!

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ITEM 1(a). NAME OF ISSUER:

The name of the issuer is W. R. Grace & Co. (the "Company").

ITEM 1(b). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES: 7500 Grace Drive, Columbia, Maryland 21044

ITEM 2(a). NAME OF PERSON FILING:

This statement is filed by:

- (i) Ardsley Partners Fund II, L.P., a Delaware limited partnership ("AP II"), with respect to the shares of Common Stock (defined in Item 2(d) below) directly owned by it;
- (ii) Ardsley Partners Institutional Fund, L.P., a Delaware limited partnership ("Ardsley Institutional"), with respect to the shares of Common Stock directly owned by it;
- (iii) Ardsley Offshore Fund Ltd., a British Virgin Islands Corporation
 ("Ardsley Offshore"), with respect to the shares of Common Stock
 directly owned by it;
- (iv) Ardsley Advisory Partners, a Connecticut general partnership ("Ardsley") which serves as Investment Manager of Ardsley Offshore and the Investment Adviser of AP II, Ardsley Institutional and certain managed accounts, with respect to the shares of Common Stock directly owned by Ardsley Offshore, AP II, Ardsley Institutional and the managed accounts;
- (v) Ardsley Partners I, a Connecticut general partnership ("Ardsley Partners") which serves as General Partner of AP II and Ardsley Institutional; and
- (vi) Philip J. Hempleman, the Managing Partner of Ardsley and Ardsley Partners, with respect to the shares of Common Stock owned by AP II, Ardsley Institutional, Ardsley Offshore and the managed accounts.

The foregoing persons are hereinafter sometimes collectively referred to as the "Reporting Persons". Any disclosures herein with respect to persons other than the Reporting Persons are made on information and belief after making inquiry to the appropriate party.

ITEM 2(b). ADDRESS OF PRINCIPAL OFFICE OR, IF NONE, RESIDENCE:

The address of the business office of each of the Reporting Persons, with the exception of Ardsley Offshore, is 262 Harbor Drive, Stamford, Connecticut 06902.

The address of the registered office of Ardsley Offshore is Romasco

Place, Wickhams Cay 1, Roadtown Tortola, British Virgin Islands.

ITEM 2(c). CITIZENSHIP:

AP II and Ardsley Institutional are Delaware limited partnerships. Ardsley Offshore is a British Virgin Islands Corporation. Ardsley and Ardsley Partners are Connecticut general partnerships. Mr. Hempleman is a United States Citizen

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ITEM 2(d). TITLE OF CLASS OF SECURITIES: Common Stock, \$0.01 par value ("Common Stock")

ITEM 2(e). CUSIP NUMBER: 38388F108

ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13d-1(b), OR 13d-2(b), CHECK WHETHER THE PERSON FILING IS A:

- (a) [] Broker or dealer registered under Section 15 of the $\,$ Act $\,$
- (b) [] Bank as defined in Section 3(a)(6) of the Act
- (c) [] Insurance Company as defined in Section 3(a)(19) of the Act
- (d) [] Investment Company registered under Section 8 of the Investment Company Act
- (e) [] Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940
- (f) [] Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see Rule 13d-1(b)(1)(ii)(F)
- (g) [] Parent Holding Company, in accordance with Rule 13d-1(b)(ii)(G); see item 7
- (h) () Group, in accordance with Rule 13d-1(b)(1)(ii)(H)

If this statement is filed pursuant to Rule 13d-1(c), check the box. [X]

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ITEM 4. OWNERSHIP.

- A. Ardsley Partners Fund II, L.P.
 - (a) Amount beneficially owned: 1,252,500
 - (b) Percent of class: 1.9%. The percentages used herein and in

the rest of Item 4 are calculated based upon the 65,616,330 shares of Common Stock issued and outstanding at April 30, 2004 as reflected in the Company's Form 10-Q/A for the quarterly period ended March 31, 2004.

- (c) (i) Sole Power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 1,252,500
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 1,252,500
- B. Ardsley Partners Institutional Fund, L.P.
 - (a) Amount beneficially owned: 610,000
 - (b) Percent of class: 0.9%
 - (c) (i) Sole Power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 610,000
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 610,000
- C. Ardsley Offshore Fund Ltd.
 - (a) Amount beneficially owned: 1,820,000
 - (b) Percent of class: 2.8%
 - (c) (i) Sole Power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 1,820,000
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 1,820,000
- D. Ardsley Advisory Partners
 - (a) Amount beneficially owned: 3,750,000
 - (b) Percent of class: 5.7%
 - (c) (i) Sole Power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 3,750,000
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 3,750,000
- E. Ardsley Partners I
 - (a) Amount beneficially owned: 1,862,500
 - (b) Percent of class: 2.8%
 - (c) (i) Sole Power to vote or direct the vote: -0-
 - (ii) Shared power to vote or direct the vote: 1,862,500
 - (iii) Sole power to dispose or direct the disposition: -0-
 - (iv) Shared power to dispose or direct the disposition: 1,862,500
- F. Philip J. Hempleman
 - (a) Amount beneficially owned: 3,750,000
 - (b) Percent of class: 5.7%
 - (c) (i) Sole Power to vote or direct the vote: 3,750,000
 - (ii) Shared power to vote or direct the vote: -0-
 - (iii) Sole power to dispose or direct the disposition: 3,750,000
 - (iv) Shared power to dispose or direct the disposition: -0-

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- 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.

Ardsley, the Investment Manager of Ardsley Offshore and the Investment Adviser of certain managed accounts, has the power to vote and direct the

disposition of the proceeds from the sale of the shares of Common Stock owned by Ardsley Offshore and the managed accounts, and accordingly may be deemed the direct "beneficial owner" of such shares of Common Stock.

Ardsley, the Investment Adviser of AP II and Ardsley Institutional shares the power to vote and direct the disposition of the proceeds from the sale of the shares of Common Stock owned by AP II and Ardsley Institutional, and accordingly may be deemed the direct "beneficial owner" of such shares of Common Stock.

Ardsley Partners, the General Partner of AP II and Ardsley Institutional shares the power to vote and direct the disposition of the shares of Common Stock owned by AP II and Ardsley Institutional, and accordingly may be deemed the direct "beneficial owner" of such shares of Common Stock.

Mr. Hempleman is the Managing Partner of Ardsley and Ardsley Partners and in that capacity directs their operations and therefore may be deemed to be the indirect "beneficial owner" of the shares of Common Stock owned by Ardsley Offshore, AP II, Ardsley Institutional and the managed accounts.

- 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.

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ITEM 10. CERTIFICATION.

Each of the Reporting Persons hereby makes the following certification:

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

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SIGNATURES

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

		0		
DATED:	September 2	, 2004		
			ARDSLEY PARTNERS FUND II, I BY: ARDSLEY PARTNERS I, GENERAL PARTNER	J.P.
			BY:	
			Philip J. Hempleman Managing Partner	
			ARDSLEY PARTNERS INSTITUTION BY: ARDSLEY PARTNERS I, GENERAL PARTNER	ONAL FUND, L.P.
			BY:	
			Philip J. Hempleman Managing Partner	
			ARDSLEY OFFSHORE FUND LTD.	
			BY:	
			Neil Glass Vice-President and Admi	
			ARDSLEY ADVISORY PARTNERS	
			BY:	
			Philip J. Hempleman Managing Partner	
CUSIP N	o. 38388F108		13G	PAGE 14 of 16 PAGES
			ARDSLEY PARTNERS I	
			BY:	
			Philip J. Hempleman	

PHILIP J. HEMPLEMAN, Individually

Managing Partner

BY: _____

Philip J. Hempleman

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JOINT FILING AGREEMENT PURSUANT TO RULE 13d-1(k)(1)

The undersigned acknowledge and agree that the foregoing statement on Schedule 13G is filed on behalf of each of the undersigned and that all subsequent amendments to this statement on Schedule 13G shall be filed on behalf of each of the undersigned without the necessity of filing additional joint filing statements. The undersigned acknowledge that each shall be responsible for the timely filing of such amendments, and for the completeness and accuracy of the information concerning him, her or it contained herein, but shall not be responsible for the completeness and accuracy of the information concerning the other entities or persons, except to the extent that he, she or it knows or has reason to believe that such information is inaccurate.

DATED: September 2, 2004

ARDSLEY PARTNERS FUND II, L.P.
BY: ARDSLEY PARTNERS I,
GENERAL PARTNER

BY:

Philip J. Hempleman Managing Partner

ARDSLEY PARTNERS INSTITUTIONAL FUND, L.P. BY: ARDSLEY PARTNERS I,

GENERAL PARTNER

BY:

Philip J. Hempleman Managing Partner

ARDSLEY OFFSHORE FUND LTD.

BY:

Neil Glass Vice-President and Administrative Manager

ARDSLEY ADVISORY PARTNERS

	BY:	
	Philip J. Hempi Managing Partne	
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	ARDSLEY PARTNERS I	
	BY:	
	Philip J. Hempi Managing Partne	leman
	PHILIP J. HEMPLEMAN	N, Individually
	BY:	
	Philip J. Hemp	leman