GSI GROUP INC Form SC 13D/A March 19, 2010

CUSIP No. 36229U102

13D/A

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SECURITIES & EXCHANGE COMMISSION Washington, D.C. 20549

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SCHEDULE 13D/A\*

(Amendment No. 4)

GSI GROUP INC.

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(Name of Issuer)

COMMON STOCK

-----

(Title of Class of Securities))

36229U102

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(CUSIP NUMBER)

John Oliva Highbridge Capital Management, LLC 9 West 57th Street, 27th Floor New York, New York 10019

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(Name, address and telephone number of person authorized to receive notices and communications)

March 16, 2010

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(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 which is the subject of this Schedule 13D, and is filing this schedule because of Rule 13d-1(e), 13d-1(f) or 13d-1(g), check the following box [].

NOTE: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Rule 13d-7 for other parties to whom copies are to be sent.

(Continued on following pages)

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(1) The remainder of this cover page shall be filled out for a reporting

(1) 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 purposes 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).

CUSIP No. 3	6229	U102	13D/A	Page	2 of 7	
(1)	 NAM	E OF	REPORTING PERSONS			
			Highbridge Capital Management, LLC			
(2)	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP  (a) [ ] (b) [X]					
(3)	SEC USE ONLY					
(4)	SOURCE OF FUNDS OO					
(5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) [ ]					
(6)	CIT		SHIP OR PLACE OF ORGANIZATION Delaware			
NUMBER OF		(7)	SOLE VOTING POWER -0-			
SHARES						
BENEFICIALL OWNED BY	Y	(8)	SHARED VOTING POWER  1,325,136 shares of Common Stock			
EACH REPORTING		(9)	SOLE DISPOSITIVE POWER			
		(10)	SHARED DISPOSITIVE POWER 1,325,136 shares of Common Stock			
(11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock					
(12)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES ** [ ]					
(13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)					

2.8% (See Item 4)

(14)	TYI	 PE OF	REPORTING PERSON OO				
CUSIP No.	36229	9U102	13D/A		Page 3	of 7	
(1)	NAN	 1E OF	REPORTING PERSONS				
	Hiç	ghbri	ge International LLC				
(2)	СНІ	 ECK T	E APPROPRIATE BOX IF A	MEMBER OF A GROU	P	(a) (b)	
(3)	SEC	USE	ONLY				
(4)	SOU	JRCE	F FUNDS WC				
(5)		CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) [ ]					[ ]
(6)	CIT	CITIZENSHIP OR PLACE OF ORGANIZATION  Cayman Islands, British West Indies					
NUMBER OF		(7) 	SOLE VOTING POWER				
	LLY	(8)	SHARED VOTING POWER 1,325,136 shares of Cor	nmon Stock			
OWNED BY  EACH  REPORTING		(9)	SOLE DISPOSITIVE POWER				
	ГН	(10)	SHARED DISPOSITIVE POWE 1,325,136 shares of Cor	ΕR			
(11)	BY	EACH	E AMOUNT BENEFICIALLY ( REPORTING PERSON 6 shares of Common Stoo				

(12)		OX IF THE AGGREGATE AMOUNT (11) EXCLUDES CERTAIN SHARES	[ ]	
(13)	BY AMOU	OF CLASS REPRESENTED NT IN ROW (11) 2.8% (See Item 4)		
(14)		REPORTING PERSON OO		
CUSIP No. 3	6229U102	13D/A Pa	age 4 of 7	
(1)	NAME OF	REPORTING PERSONS		
		Glenn Dubin		
(2)	CHECK T	HE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) [ ] (b) [X]	
(3)	SEC USE	ONLY		
(4)	SOURCE	OF FUNDS OO		
(5)	CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEMS 2(d) OR 2(e) [ ]			
(6)	CITIZEN	SHIP OR PLACE OF ORGANIZATION United States		
NUMBER OF	(7)	SOLE VOTING POWER -0-		
SHARES				
BENEFICIALLY OWNED BY		SHARED VOTING POWER 1,325,136 shares of Common Stock		
EACH	(9)	SOLE DISPOSITIVE POWER		
REPORTING		· 		
PERSON WITH	(10)	SHARED DISPOSITIVE POWER 1,325,136 shares of Common Stock		

(11)	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock	
(12)	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) EXCLUDES CERTAIN SHARES	[ ]
(13)	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11) 2.8% (See Item 4)	
(14)	TYPE OF REPORTING PERSON IN	

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#### Item 1. Security and Issuer.

This Amendment No. 4 (the "Amendment") amends the statement on Schedule 13D filed on July 2, 2009 (the "Original Schedule 13D", as amended hereby and by Amendment No. 1 filed on November 20, 2009, Amendment No. 2 filed on March 3, 2010 and Amendment No. 3 filed on March 16, 2010, the "Schedule 13D") with respect to the common stock, no par value (the "Common Stock"), of GSI Group Inc., a company continued and existing under the laws of the Province of New Brunswick, Canada (the "Issuer"). Capitalized terms used herein and not otherwise defined in this Amendment have the meanings set forth in the Schedule 13D. This Amendment amends Items 4, 6 and 7 as set forth below.

Item 4. Purpose of the Transaction.

Item 4 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

On March 16, 2010 Highbridge International LLC and the other Consenting Noteholders entered into an Amended and Restated Noteholder Restructuring Plan Support Agreement (the "Amended and Restated Plan Support Agreement") with the Issuer Parties, amending and restating the Plan Support Agreement. Under the Amended and Restated Plan Support Agreement the parties thereto agreed to modifications to the Plan (the "Modified Plan") and to support the Modified Plan. The Amended and Restated Plan Support Agreement contains specific agreements by the Consenting Noteholders with respect to voting their claims in support of the Modified Plan as well as conditions to the termination of the Amended and Restated Plan Support Agreement which are substantially similar to those contained in the Plan Support Agreement.

As more fully described in the Modified Plan, under the Modified Plan the Notes will be exchanged for, among other things, New Senior Secured Notes (as defined in the Modified Plan) and New Preferred Shares (as defined in the Modified Plan) which New Preferred Shares will be convertible into common stock

of the reorganized Issuer. The holders of the New Preferred Shares will vote together with the holders of common stock of the reorganized Issuer on an as converted basis. The terms of the New Preferred Shares are set forth as Exhibit C to the Modified Plan. This description of the Modified Plan is a summary only and is qualified in its entirety by reference to the Modified Plan, a copy of which was filed as Exhibit A of Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on March 19, 2010.

This description of the Amended and Restated Plan Support Agreement is a summary only and is qualified in its entirety by reference to the Amended and Restated Plan Support Agreement, a copy of which is referenced as Exhibit 8 hereto (which incorporates by reference Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on March 19, 2010) and is incorporated herein by reference.

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

Item 6 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

As described in Item 4 above, on March 16, 2010, the Consenting Noteholders entered into the Amended and Restated Plan Support Agreement with the Issuer Parties, under which the parties thereto agreed to the terms of a restructuring of the Notes pursuant to the Modified Plan, a copy of which is referenced as Exhibit 8 hereto (which incorporates by reference Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on March 19, 2010) and is incorporated herein by reference.

Item 7. Material to Be Filed as Exhibits

Item 7 of the Schedule 13D is hereby amended and supplemented by the addition of the following:

8. Amended and Restated Noteholder Restructuring Plan Support Agreement, dated as of March 16, 2010, by and among the Consenting Noteholders and the Issuer Parties (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on March 19, 2010).

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#### SIGNATURES

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

DATED: March 19, 2010

HIGHBRIDGE INTERNATIONAL LLC

HIGHBRIDGE CAPITAL MANAGEMENT, LLC

By: Highbridge Capital Management, LLC By: /s/ John Oliva its Trading Manager

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Name: John Oliva

Title: Managing Director

By: /s/ John Oliva

Name: John Oliva

Title: Managing Director

/s/ Glenn Dubin

GLENN DUBIN