GSI GROUP INC Form SC 13D/A May 18, 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. 6)

GSI GROUP INC.

\_\_\_\_\_

(Name of Issuer)

COMMON STOCK

(Title of Class of Securities))

36229U102

(CUSIP NUMBER)

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

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

May 14, 2010

(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 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. 36	6229U	J102	13D/A		Page 2 of 7		
(1)	NAME	 E OF	REPORTING PERSONS  Highbridge Capital Management, LLC				
(2)	СНЕС	 CK T:		(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)	CITI		SHIP OR PLACE OF ORGANIZATION Delaware				
NUMBER OF	(	(7)	SOLE VOTING POWER -0-				
BENEFICIALLY	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)		REPORTING PERSON				
CUSIP No. 3	6229U102	13D/A	Page 3 of 7			
(1)	NAME OF	REPORTING PERSONS				
	Highbri	dge International LLC				
(2)	CHECK T	HE APPROPRIATE BOX IF A MEMBER OF A GROUP	(a) [ ] (b) [X]			
(3)	SEC USE	ONLY				
(4)	SOURCE (	OF FUNDS  WC				
(5)		OX IF DISCLOSURE OF LEGAL PROCEEDINGS IS D PURSUANT TO ITEMS 2(d) OR 2(e)	[ ]			
(6)	CITIZEN:	SHIP OR PLACE OF ORGANIZATION Cayman Islands, British West Indies				
NUMBER OF	(7)	SOLE VOTING POWER				
BENEFICIALL	Y (8)	SHARED VOTING POWER  1,325,136 shares of Common Stock				
EACH	` ,	SOLE DISPOSITIVE POWER -0-				
REPORTING						
PERSON WITH	(10)	SHARED DISPOSITIVE POWER 1,325,136 shares of Common Stock				
(11)	BY EAC	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON 1,325,136 shares of Common Stock				
(12)		BOX IF THE AGGREGATE AMOUNT (11) EXCLUDES CERTAIN SHARES	[ ]			

(13)		I OF CLASS REPRESENTED UNT IN ROW (11) 2.8% (See Item 4)				
(14)	TYPE O	F REPORTING PERSON OO				
CUSIP No. 3	6229U102	13D/A	Page 4 of 7			
(1)	NAME OF	REPORTING PERSONS				
		Glenn Dubin				
(2)	CHECK T	(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)		SHIP OR PLACE OF ORGANIZATION United States				
NUMBER OF		SOLE VOTING POWER				
	Y (8)	SHARED VOTING POWER 1,325,136 shares of Common Stock				
EACH	(9)	SOLE DISPOSITIVE POWER -0-				
REPORTING PERSON WITH	(10)	SHARED DISPOSITIVE POWER 1,325,136 shares of Common Stock				
(11)		TE AMOUNT BENEFICIALLY OWNED 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. 6 (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, Amendment No. 3 filed on March 16, 2010, Amendment No. 4 filed on March 19, 2010 and Amendment No. 5 filed on May 11, 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 May 14, 2010 Highbridge International and the other Consenting Noteholders entered into the Restructuring Plan Support Agreement with the Issuer Parties, the Equity Committee and each of the members of the Equity Committee (the "Equity Holders"). The Restructuring Plan Support Agreement supersedes the Plan Support Agreement. Under the Restructuring Plan Support Agreement the parties thereto agreed to support the Fourth Modified Plan of Reorganization the terms of which are substantially similar to those set forth in the Term Sheet previously disclosed in Amendment No. 5 to the Schedule 13D. Under the Restructuring Plan Support Agreement the Consenting Noteholders agreed to vote their claims in support of the Fourth Modified Plan of Reorganization, subject to the conditions to termination contained in the Restructuring Plan Support Agreement.

As previously disclosed in Amendment No. 5 to the Schedule 13D and as more fully described in the Fourth Modified Plan of Reorganization, under the Fourth Modified Plan of Reorganization the Noteholders will receive, in exchange for their Notes, their pro-rata share of (i) between \$90,000,000 and \$110,000,000 principal amount of New Senior Secured Notes, (ii) the Cash Payment, (iii) all cash proceeds from the Rights Offering, (iv) payment in cash of all accrued but unpaid interest due under the Notes through the date of effectiveness of the

Issuer Parties' bankruptcy cases and (v) the Supplemental Equity Exchange.

As previously disclosed in Amendment No. 5 to the Schedule 13D and as more fully described in the Fourth Modified Plan of Reorganization and the Backstop Commitment Agreement entered into on May 14, 2010 by and among the Issuer and the Consenting Noteholders (the "Backstop Commitment Agreement"), the Consenting Noteholders agreed to backstop the Rights Offering (the "Backstop Commitment"), subject to the conditions to closing and termination contained therein. The Backstop Commitment Agreement sets forth, among other things, the terms of the Backstop Commitment which are substantially similar to those previously disclosed in Amendment No. 5 to the Schedule 13D.

This description of the Fourth Modified Plan of Reorganization is a summary only and is qualified in its entirety by reference to the Fourth Modified Plan of Reorganization, 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 May 18, 2010.

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This description of the Restructuring Plan Support Agreement and Backstop Commitment Agreement is a summary only and is qualified in its entirety by reference to the Restructuring Plan Support Agreement and Backstop Commitment Agreement, copies of which are referenced as Exhibits 10 and 11 hereto, respectively, (which incorporate by reference Exhibits 10.1 and 10.2, respectively, of the Current Report on Form 8-K filed by the Issuer on May 18, 2010).

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 May 14, 2010, the Consenting Noteholders entered into the Restructuring Plan Support Agreement with the Issuer Parties, the Equity Committee and the Equity Holders, under which the parties thereto agreed to the terms of a restructuring of the Notes pursuant to the Fourth Modified Plan of Reorganization, a copy of which is referenced as Exhibit 10 hereto (which incorporates by reference Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on May 18, 2010) and is incorporated herein by reference.

As described in Item 4 above, on May 14, 2010, the Consenting Noteholders entered into the Backstop Commitment Agreement with the Issuer, under which the Consenting Noteholders agreed to backstop the Rights Offering, a copy of which is referenced as Exhibit 11 hereto (which incorporates by reference Exhibit 10.2 of the Current Report on Form 8-K filed by the Issuer on May 18, 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:

10. Restructuring Plan Support Agreement, dated as of May 14, 2010, by and among the Consenting Noteholders, the Issuer Parties, the Equity Committee and the Equity Holders (incorporated by reference to Exhibit 10.1 of the Current Report on Form 8-K filed by the Issuer on May 18, 2010).

11. Backstop Commitment Agreement, dated as of May 14, 2010, by and among the Consenting Noteholders and the Issuer (incorporated by reference to Exhibit 10.2 of the Current Report on Form 8-K filed by the Issuer on May 18, 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: May 18, 2010

HIGHBRIDGE INTERNATIONAL LLC

HIGHBRIDGE CAPITAL MANAGEMENT, LLC

By: Highbridge Capital Management, LLC

its Trading Manager

By: /s/ John Oliva

Name: John Oliva

Title: Managing Director

By: /s/ John Oliva

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Name: John Oliva

Title: Managing Director

/s/ Glenn Dubin

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GLENN DUBIN