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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

SCHEDULE 13D

**UNDER THE SECURITIES EXCHANGE ACT OF 1934
(Amendment No. 6)***

Shake Shack Inc.
(Name of Issuer)

Common Stock, \$0.001 par value per share
(Title of Class of Securities)

819047 101
(CUSIP Number)

**Jennifer Bellah Maguire
Gibson, Dunn & Crutcher LLP
333 South Grand Avenue
Los Angeles, California 90071-3197
(213) 229-7986**
(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

May 18, 2016
(Date of Event Which Requires Filing of Statement on Schedule 13D)

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 §§240.13d-1(e), 240.13d-1(f) or 240.13d-1(g), checking the following box. ☐

* 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).

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Green Equity Investors VI, L.P.		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): PN		

Note: All share numbers on these cover pages presented on an as-converted basis.

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Green Equity Investors Side VI, L.P.		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power	
		0	
	(8)	Shared Voting Power	
		6,834,471	
	(9)	Sole Dispositive Power	
		0	
	(10)	Shared Dispositive Power	
		6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): PN		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): LGP Malted Coinvest LLC		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input checked="" type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): OO (Limited Liability Company)		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): GEI Capital VI, LLC		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): OO (Limited Liability Company)		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Green VI Holdings, LLC		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power	
		0	
	(8)	Shared Voting Power	
		6,834,471	
	(9)	Sole Dispositive Power	
		0	
	(10)	Shared Dispositive Power	
		6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): OO (Limited Liability Company)		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Leonard Green & Partners, L.P.		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power	
		0	
	(8)	Shared Voting Power	
		6,834,471	
	(9)	Sole Dispositive Power	
		0	
	(10)	Shared Dispositive Power	
		6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): PN		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): LGP Management, Inc.		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): CO		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Peridot Coinvest Manager LLC		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Delaware		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power	
		0	
	(8)	Shared Voting Power	
		6,834,471	
	(9)	Sole Dispositive Power	
		0	
	(10)	Shared Dispositive Power	
		6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): OO (Limited Liability Company)		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): Jonathan D. Sokoloff		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: United States of America		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,825,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): IN		

(1)	Name of Reporting Persons: I.R.S. Identification No. of Above Persons (entities only): J. Kristofer Galashan		
(2)	Check the Appropriate Box if a Member of a Group (See Instructions): (a) <input type="checkbox"/> (b) <input type="checkbox"/>		
(3)	SEC Use Only:		
(4)	Source of Funds (See Instructions):		
(5)	Check Box if Disclosure of Legal Proceedings is Required Pursuant to Items 2(d) or 2(e): <input type="checkbox"/>		
(6)	Citizenship or Place of Organization: Canada		
NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	(7)	Sole Voting Power 0	
	(8)	Shared Voting Power 6,834,471	
	(9)	Sole Dispositive Power 0	
	(10)	Shared Dispositive Power 6,834,471	
(11)	Aggregate Amount Beneficially Owned by Each Reporting Person: 6,834,471		
(12)	Check Box if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions): <input type="checkbox"/>		
(13)	Percent of Class Represented by Amount in Row (11): 18.8% beneficial ownership of the voting stock based on 36,283,690 shares of Common Stock outstanding as of May 4, 2016		
(14)	Type of Reporting Person (See Instructions): IN		

ITEM 1. SECURITY AND ISSUER

This Amendment No. 6 to Schedule 13D (this “**Amendment**”) relates to shares of Class A common stock, par value \$0.001 per share (the “**A-Common**”) of Shake Shack Inc., a Delaware corporation (the “**Issuer**”). Capitalized terms used in this Amendment and not otherwise defined herein shall have the meanings ascribed to them in the Schedule 13D.

The address of the Issuer’s principal executive offices is 24 Union Square East, 5th Floor, New York, NY 10003.

ITEM 2. IDENTITY AND BACKGROUND

The disclosure provided in Item 2 of the Schedule 13D amended hereby is updated to include the following additional disclosure:

- (a) As of the date of this statement, (i) GEI VI is the record owner of 576,338 shares of A-Common and 3,508,297 shares of the Issuer’s Class B common stock, par value \$0.001 per share (“**B-Common**”), (ii) GEI Side VI is the record owner of 2,434,448 shares of A-Common, and (iii) Malted is the record owner of 35,536 shares of A-Common and 262,601 shares of B-Common.

ITEM 4. PURPOSE OF TRANSACTION

The disclosure provided in Item 4 of the Schedule 13D amended hereby is updated to include the following additional disclosure:

On May 16, 2016, (i) GEI VI tendered to the Issuer 292,131 LLC Interests and 292,131 shares of B-Common in exchange for 292,131 shares of A-Common, and (ii) Malted tendered to the Issuer 21,867 LLC Interests and 21,867 shares of B-Common in exchange for 21,867 shares of A-Common. Prior and subsequent to the May 16, 2016 redemptions, the Reporting Persons executed the transactions set forth in Item 5(c).

ITEM 5. INTEREST IN SECURITIES OF THE ISSUER

(a) and (b)

Reporting Persons	Number* of Shares With Shared Voting Power	Sole Beneficial Ownership	Shared Beneficial Ownership*	Percentage of Class Beneficially Owned
GEI VI	6,834,471	0	6,825,471	18.8%
GEI Side VI	6,834,471	0	6,825,471	18.8%
Malted	6,834,471	0	6,825,471	18.8%
Jonathan D. Sokoloff	6,834,471	0	6,825,471	18.8%
J. Kristofer Galashan	6,834,471	9,000	6,834,471	18.8%
Other				
Reporting Persons	6,834,471	0	6,825,471	18.8%

* All share numbers presented in this table assume full conversion of B-Common to A-Common.

- (c) The following table sets forth all transactions with respect to shares of Common Stock effectuated since the most recent filing on Schedule 13D by any of the Reporting Persons. Each day's sales comprised open market transactions made on that day, and the price per share reported is the weighted average sale price. The Reporting Persons hereby undertake to provide upon request to the SEC staff, the Issuer, or a security holder of the Issuer full information regarding the number of Common Stock and prices at which the trades were effected.

Reporting Person	Date of Transaction	Number of Shares Sold	Price per Share
GEI VI	May 2, 2016	29,958	\$35.26
GEI Side VI	May 2, 2016	17,855	\$35.26
Malted	May 2, 2016	2,187	\$35.26
GEI VI	May 3, 2016	25,514	\$35.08
GEI Side VI	May 3, 2016	15,206	\$35.08
Malted	May 3, 2016	1,862	\$35.08
GEI VI	May 9, 2016	11,169	\$35.25
GEI Side VI	May 9, 2016	6,656	\$35.25
Malted	May 9, 2016	815	\$35.25
GEI VI	May 10, 2016	29,959	\$35.09
GEI Side VI	May 10, 2016	17,855	\$35.09
Malted	May 10, 2016	2,186	\$35.09
GEI VI	May 11, 2016	26,783	\$35.23
GEI Side VI	May 11, 2016	15,962	\$35.23
Malted	May 11, 2016	1,955	\$35.23
GEI VI	May 13, 2016	26,409	\$36.34
GEI Side VI	May 13, 2016	15,741	\$36.34
Malted	May 13, 2016	1,928	\$36.34
GEI VI	May 16, 2016	29,958	\$35.92
GEI Side VI	May 16, 2016	17,855	\$35.92
Malted	May 16, 2016	2,187	\$35.92
GEI VI	May 17, 2016	29,958	\$36.02
GEI Side VI	May 17, 2016	17,855	\$36.02
Malted	May 17, 2016	2,187	\$36.02
GEI VI	May 18, 2016	29,958	\$35.14
GEI Side VI	May 18, 2016	17,855	\$35.14
Malted	May 18, 2016	2,187	\$35.14
GEI VI	May 19, 2016	22,433	\$35.03
GEI Side VI	May 19, 2016	13,369	\$35.03
Malted	May 19, 2016	1,637	\$35.03

(d) Not applicable.

(e) Not applicable.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, each of the undersigned certifies that the information set forth in this Amendment is true, complete, and correct.

Dated as of May 20, 2016

Green Equity Investors VI, L.P.
By: GEI Capital VI, LLC, its General Partner

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

Green Equity Investors Side VI, L.P.
By: GEI Capital VI, LLC, its General Partner

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

LGP Malted Coinvest LLC
By: Peridot Coinvest Manager LLC, its Manager
By: Leonard Green & Partners, L.P., its Manager
By: LGP Management, Inc., its General Partner

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

GEI Capital VI, LLC

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

Green VI Holdings, LLC

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

Leonard Green & Partners, L.P.
By: LGP Management, Inc., its General Partner

By: / S / A DRIAN J. M AIZEY
Name: Adrian J. Maizey
Title: Chief Operating Officer and Secretary

LGP Management, Inc.By: / S / A DRIAN J. M AIZEY

Name: Adrian J. Maizey

Title: Chief Operating Officer and Secretary

Peridot Coinvest Manager LLC**By: Leonard Green & Partners, L.P., its Manager****By: LGP Management, Inc., its General Partner**By: / S / A DRIAN J. M AIZEY

Name: Adrian J. Maizey

Title: Chief Operating Officer and Secretary

/ S / A DRIAN J. M AIZEY

Adrian J. Maizey, as Attorney-in-Fact for

Jonathan D. Sokoloff

/ S / A DRIAN J. M AIZEY

Adrian J. Maizey, as Attorney-in-Fact for

J. Kristofer Galashan