MEDIFAST INC Form SC 13D/A December 14, 2016

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D (Rule 13d-101)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO § 240.13d-1(a) AND AMENDMENTS THERETO FILED PURSUANT TO § 240.13d-2(a)

(Amendment No. 5)1

Medifast, Inc.

(Name of Issuer)

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

58470H101

(CUSIP Number)

GLENN W. WELLING ENGAGED CAPITAL, LLC 610 Newport Center Drive, Suite 250 Newport Beach, California 92660 (949) 734-7900

STEVE WOLOSKY
OLSHAN FROME WOLOSKY LLP
1325 Avenue of the Americas
New York, New York 10019
(212) 451-2300

(Name, Address and Telephone Number of Person

Authorized to Receive Notices and Communications)

December 14, 2016 (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 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), 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 § 240.13d-7 for other parties to whom copies are to be sent.

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 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).

NAME OF REPORTING PERSON

CUSIP NO. 58470H101

-	THE OF REPORT OF EASILY				
2	Engaged Capital Flagship Master Fund, LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) o (b) o				
3	SEC USE ONLY				
4	SOURCE OF FUNDS				
5	WC, OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS " IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)				
6	CITIZENSHIP OR PLACE OF	ORGANIZATION			
NUMBER OF SHARES	CAYMAN ISLANDS 7	SOLE VOTING POWER			
BENEFICIALLY OWNED BY EACH	8	695,105 SHARED VOTING POWER			
REPORTING PERSON WITH	9	- 0 - SOLE DISPOSITIVE POWER			
	10	695,105 SHARED DISPOSITIVE POWE	ER		
11	- 0 - AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
12	695,105 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES				
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)				
14	5.9% TYPE OF REPORTING PERSON				
	PN				

CUSIP NO. 58470H101

1	NAME OF REPORTING PERSON			
2	Engaged Capital Flagship Fund, LP CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	SOURCE OF F	UNDS		
5	OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP	OR PLACE OF (ORGANIZATION	
NUMBER OF SHARES	DELAWARE	7	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		8	695,105 SHARED VOTING POWER	
REPORTING PERSON WITH			- 0 - SOLE DISPOSITIVE POWER	
		10	695,105 SHARED DISPOSITIVE POWE	R
11	A COREC A TEL	ANGLINE DEN	- 0 -	DEDODENIA DEDOM
11	AGGREGATE	AMOUNT BENI	EFICIALLY OWNED BY EACH	REPORTING PERSON
12	695,105 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14	5.9% TYPE OF REPORTING PERSON			
	PN			
3				

NAME OF REPORTING PERSON

CUSIP NO. 58470H101

1	NAME OF REFORTING LEASON			
2	Engaged Capital Flagship Fund, Ltd. CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) o (b) o			
3	SEC USE ONLY			
4	SOURCE OF FUNDS			
5	OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS " IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP OR PLACE OF	ORGANIZATION		
NUMBER OF SHARES	CAYMAN ISLANDS 7	SOLE VOTING POWER		
BENEFICIALLY OWNED BY EACH	8	695,105 SHARED VOTING POWER		
REPORTING PERSON WITH	9	- 0 - SOLE DISPOSITIVE POWER		
	10	695,105 SHARED DISPOSITIVE POWE	ER .	
11	AGGREGATE AMOUNT BEN	- 0 - IEFICIALLY OWNED BY EACH	REPORTING PERSON	
12	695,105 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14	5.9% TYPE OF REPORTING PERSON			
	CO			
4				

CUSIP NO. 58470H101

1	NAME OF REPORTING PERSON			
2	Engaged Capital, LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP SEC USE ONLY (a) o (b) o			
4	SOURCE OF F	FUNDS		
5	OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	DELAWARE	7	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	8	772,465 SHARED VOTING POWER	
REPORTING PERSON WITH		9	- 0 - SOLE DISPOSITIVE POWER	
		10	772,465 SHARED DISPOSITIVE POWE	R
11	AGGREGATE	AMOUNT BEN	- 0 - EFICIALLY OWNED BY EACH	REPORTING PERSON
12	772,465 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14	6.5% TYPE OF REPORTING PERSON			
	00			
5				

CUSIP NO. 58470H101

1	NAME OF REPORTING PERSON			
2	Engaged Capital Holdings, LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) o (b) o			
3	SEC USE ONL	LΥ		
4	SOURCE OF F	FUNDS		
5	OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS " IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP OR PLACE OF ORGANIZATION			
NUMBER OF SHARES	DELAWARE	7	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH	•	8	772,465 SHARED VOTING POWER	
REPORTING PERSON WITH		9	- 0 - SOLE DISPOSITIVE POWER	
		10	772,465 SHARED DISPOSITIVE POWE	ER
11	AGGREGATE	AMOUNT BEN	- 0 - EFICIALLY OWNED BY EACH	REPORTING PERSON
12	772,465 CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14	6.5% TYPE OF REPORTING PERSON			
	00			

CUSIP NO. 58470H101

1	NAME OF REPORTING PERSON			
2	Glenn W. Welling CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (b) o SEC USE ONLY			
4	SOURCE OF F	UNDS		
5	OO CHECK BOX IF DISCLOSURE OF LEGAL PROCEEDINGS " IS REQUIRED PURSUANT TO ITEM 2(d) OR 2(e)			
6	CITIZENSHIP	OR PLACE OF O	ORGANIZATION	
NUMBER OF SHARES	USA	7	SOLE VOTING POWER	
BENEFICIALLY OWNED BY EACH		8	773,090 SHARED VOTING POWER	
REPORTING PERSON WITH	- 0 - 9 SOLE DISPOSITIVE POWER			
		10	773,090 SHARED DISPOSITIVE POWE	R
11	AGGREGATE	AMOUNT BEN	- 0 - EFICIALLY OWNED BY EACH	REPORTING PERSON
12	773,090* CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (11) o EXCLUDES CERTAIN SHARES			
13	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (11)			
14	6.5% TYPE OF REPORTING PERSON IN			
	111			

^{*} Includes 625 Shares beneficially owned directly by Mr. Welling, consisting of Shares underlying certain restricted Shares that vest within 60 days of the date hereof.

CUSIP NO. 58470H101

The following constitutes Amendment No. 5 the Schedule 13D filed by the undersigned ("Amendment No. 5"). This Amendment No. 5 amends the Schedule 13D as specifically set forth herein.

Item 2.

Identity and Background.

Effective July 1, 2016, certain of the Reporting Persons underwent a name change. Accordingly, Item 2(a) is hereby amended and restated as follows:

- (a) This statement is filed by:
- (i) Engaged Capital Flagship Master Fund, LP ("Engaged Capital Flagship Master"), a Cayman Islands exempted limited partnership formerly known as Engaged Capital Master Feeder II, LP, with respect to the Shares directly and beneficially owned by it;
- (ii) Engaged Capital Flagship Fund, LP ("Engaged Capital Fund"), a Delaware limited partnership formerly known as Engaged Capital II, LP, as a feeder fund of Engaged Capital Flagship Master;
- (iii) Engaged Capital Flagship Fund, Ltd. ("Engaged Capital Offshore"), a Cayman Islands exempted company formerly known as Engaged Capital II Offshore Ltd., as a feeder fund of Engaged Capital Flagship Master;
- (iv) Engaged Capital, LLC, a Delaware limited liability company ("Engaged Capital"), as the general partner and investment adviser of Engaged Capital Flagship Master and the investment adviser of a certain managed account (the "Engaged Capital Account");
- (v)Engaged Capital Holdings, LLC, a Delaware limited liability company ("Engaged Holdings"), as the managing member of Engaged Capital; and
- (vi) Glenn W. Welling, as the Founder and Chief Investment Officer ("CIO") of Engaged Capital and the sole member of Engaged Holdings.

Item 3. Source and Amount of Funds or Other Consideration.

Item 3 is hereby amended and restated to read as follows:

The Shares owned by Engaged Capital Flagship Master and held in the Engaged Capital Account were purchased with working capital (which may, at any given time, include margin loans made by brokerage firms in the ordinary course of business) in open market purchases, except as has been previously otherwise noted. The aggregate purchase price of the 695,105 Shares beneficially owned by Engaged Capital Flagship Master is approximately \$20,614,011, including brokerage commissions. The aggregate purchase price of the 77,360 Shares held in the Engaged Capital Account is approximately \$2,268,821, including brokerage commissions.

Mr. Welling, in his capacity as a director of the Issuer, has been awarded an aggregate of 2,670 restricted Shares, of which 625 restricted Shares vest within 60 days of the date hereof.

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Item 5.

Interest in Securities of the Issuer.

Items 5(a) - (c) are hereby amended and restated to read as follows:

(a) The aggregate percentage of Shares reported owned by each person named herein is based upon 11,848,360 Shares outstanding as of November 1, 2016, which is the total number of Shares outstanding as reported in the Issuer's Quarterly Report on Form 10-Q filed with the Securities and Exchange Commission on November 9, 2016.

As of the close of business on December 14, 2016, Engaged Capital Flagship Master beneficially owned 695,105 Shares, constituting approximately 5.9% of the Shares outstanding. Each of Engaged Capital Fund and Engaged Capital Offshore, as feeder funds of Engaged Capital Flagship Master, may be deemed to beneficially own the 695,105 Shares owned by Engaged Capital Flagship Master, constituting approximately 5.9% of the Shares outstanding.

As of the close of business on December 14, 2016, 77,360 Shares were held in the Engaged Capital Account, constituting less than 1% of the Shares outstanding.

As of the close of business on December 14, 2016, Mr. Welling directly beneficially owned 625 Shares, consisting of Shares underlying certain restricted Shares that vest within 60 days of the date hereof, constituting less than 1% of the Shares outstanding.

Engaged Capital, as the general partner and investment adviser of Engaged Capital Flagship Master and the investment adviser of the Engaged Capital Account, may be deemed to beneficially own the 772,465 Shares owned in the aggregate by Engaged Capital Flagship Master and held in the Engaged Capital Account, constituting approximately 6.5% of the Shares outstanding. Engaged Holdings, as the managing member of Engaged Capital, may be deemed to beneficially own the 772,465 Shares owned in the aggregate by Engaged Capital Flagship Master and held in the Engaged Capital Account, constituting approximately 6.5% of the Shares outstanding. Mr. Welling, as the Founder and CIO of Engaged Capital and sole member of Engaged Holdings, may be deemed to beneficially own the 772,465 Shares owned in the aggregate by Engaged Capital Flagship Master and held in the Engaged Capital Account, constituting approximately 6.5% of the Shares he directly beneficially owns, constitutes an aggregate of 773,090 Shares, constituting approximately 6.5% of the Shares outstanding.

Each Reporting Person, as a member of a "group" with the other Reporting Persons for the purposes of Section 13(d)(3) of the Securities Exchange Act of 1934, as amended, may be deemed the beneficial owner of the Shares directly owned by the other Reporting Persons. Each Reporting Person disclaims beneficial ownership of such Shares except to the extent of his or its pecuniary interest therein.

(b) By virtue of their respective positions with Engaged Capital Flagship Master, each of Engaged Capital Fund, Engaged Capital Offshore, Engaged Capital, Engaged Holdings and Mr. Welling may be deemed to have sole power to vote and dispose of the Shares reported owned by Engaged Capital Flagship Master.

By virtue of their respective positions with the Engaged Capital Account, each of Engaged Capital, Engaged Holdings and Mr. Welling may be deemed to have sole power to vote and dispose of the Shares held in the Engaged Capital Account.

Mr. Welling has the sole power to vote and dispose of the Shares directly beneficially owned by him.

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(c) Schedule A annexed hereto lists all transactions in securities of the Issuer by the Reporting Persons during the past 60 days.

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

Item 6 is hereby amended to add the following:

On December 14, 2016, Engaged Capital, on behalf of certain of its affiliates, entered into a Purchase Trading Plan Agreement (the "Agreement") with Mutual Securities, Inc. ("MSI") for the purpose of establishing a trading plan to effect purchases of Shares of the Issuer in compliance with all applicable laws, including, without limitation, Section 10(b) of the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder, including, but not limited to, Rule 10b5-1.

Shares purchased pursuant to the Agreement may only be purchased in accordance with trading requirements adopted by Engaged Capital, and there can be no assurance as to how many Shares, if any, will be purchased pursuant to the Agreement or at what price any such Shares will be purchased.

A copy of the Agreement is attached hereto as Exhibit 99.1 and is incorporated herein by reference.

Item 7. Material to be Filed as Exhibits.

Item 7 is hereby amended to add the following exhibit:

99.1 Purchase Trading Plan Agreement, dated December 14, 2016.

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SIGNATURES

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

Dated: December 14, 2016

Engaged Capital Flagship Master Fund, LP

By: Engaged Capital, LLC

General Partner

By: /s/ Glenn W. Welling

Name: Glenn W. Welling

Title: Founder and Chief Investment

Officer

Engaged Capital Flagship Fund, LP

By: Engaged Capital, LLC

General Partner

By: /s/ Glenn W. Welling

Name: Glenn W. Welling

Title: Founder and Chief Investment

Officer

Engaged Capital Flagship Fund, Ltd.

By: /s/ Glenn W. Welling

Name: Glenn W. Welling

Title: Director

Engaged Capital, LLC

By: /s/ Glenn W. Welling

Name: Glenn W. Welling

Title: Founder and Chief Investment

Officer

Engaged Capital Holdings, LLC

By: /s/ Glenn W. Welling

Name: Glenn W. Welling
Title: Sole Member

/s/ Glenn W. Welling Glenn W. Welling

CUSIP NO. 58470H101

SCHEDULE A

Transactions in Securities of the Issuer During the Past Sixty Days

	Securities	Price Per	Date of		
Nature of the Transaction	Purchased/(Sold)	Share(\$)	Purchase / Sale		
	ENGAGED CAPITAL FLAC	SHIP MASTER FUND, LI			
Purchase of Common Stock	21,550	38.9752	11/14/2016		
Purchase of Common Stock	6,090	39.2040	11/15/2016		
	ENGAGED CA	APITAL, LLC			
(Through the Engaged Capital Account)					
		•			
Purchase of Common Stock	900	38.7858	11/14/2016		
Purchase of Common Stock	5,529	38.9752	11/14/2016		
Purchase of Common Stock	931	39.2040	11/15/2016		