### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### **SCHEDULE 13G**

(Rule 13d-102)

# INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO § 240.13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED PURSUANT TO § 240.13d-2.

		(Amendment No. )*			
CHF Solutions, Inc.					
		(Name of Issuer)			
		Common Stock, \$0.0001 par value per share			
		(Title of Class of Securities)			
		12542Q508			
		(CUSIP Number)			
		June 29, 2018			
		(Date of Event Which Requires Filing of this Statement)			
Check the an	propriate box to de	esignate the rule pursuant to which this Schedule is filed:			
0	Rule 13d-1(b)	sospance the rate parameter than beneather to mean			
X	Rule 13d-1(c)				
0	Rule 13d-1(d)				
		age shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for training information which would alter the disclosures provided in a prior cover page.			
The informat	ion 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			
		ect 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:	12542Q508				
(1)	Names of Reporting Persons CVI Investments, Inc.				
		, inc.			
(2)	Check the Appropriate Box if a Member of a Group (See Instructions)				
	(a) (				
	(b) (c)				
	_	,			
(3)	SEC Use Only				
(-)					
(4)	Citizenship or Place of Organization				
( )	Cayman Islands				
Number of	(5)	Sole Voting Power			
Shares Beneficially		0			
Owned by	(6)				
Each	(6)	Shared Voting Power **			

368,571

Reporting Person With	(7)	Sole Dispositive Power 0		
	(8)	Shared Dispositive Power ** 368,571		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person 368,571			
(10)	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o			
(11)	Percent of Class Represented by Amount in Row (9) 5.2%			
(12)	Type of Reporting Person (See Instructions)			
** Heights Cashares.		Inc. is the investment manager to CVI Investments, Inc. and as such may exercise voting and dispositive power over these		
		2		
CUSIP No: 1	2542Q508			
(1)	Names of Reporting Persons Heights Capital Management, Inc.			
(2)	Check the Appropriate Box if a Member of a Group (See Instructions)  (a) o			
	(b) o			
(3)	SEC Use Only			
(4)	Citizenship or Place of Organization Delaware			
	(5)	Sole Voting Power 0		
Number of Shares Beneficially	(6)	Shared Voting Power ** 368,571		
Owned by Each Reporting Person With	(7)	Sole Dispositive Power 0		
	(8)	Shared Dispositive Power ** 368,571		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person 368,571			
(10)	Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions) o			

(11)	Percent of Class Represented by Amount in Row (9) 5.2%		
(12)	Type of Reporting Person (See Instructions) CO		
** Heights C	anital Mana	gement, Inc. is the investment manager to CVI Investments, Inc. and as such may exercise voting and dispositive power over these	
shares.	apitai wana	gement, met is die investment manager to 6 v i investments, met alla as such may exercise volling and aispositive power over diese	
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CUSIP No:	12542Q508		
Item 1.			
item i.	(a)	Name of Issuer	
	(b)	CHF Solutions, Inc. (the "Company")  Address of Issuer's Principal Executive Offices	
	(0)	12988 Valley View Rd., Eden Prairie, Minnesota, 55344	
Item 2(a).		Name of Person Filing This statement is filed by the entities listed below, who are collectively referred to herein as "Reporting Persons," with respect to the shares of Common Stock of the Company, \$0.0001 par value per share (the "Shares").	
		(i) CVI Investments, Inc.	
		(ii) Heights Capital Management, Inc.	
Item 2(b).	•	Address of Principal Business Office or, if none, Residence The address of the principal business office of CVI Investments, Inc. is:	
		P.O. Box 309GT  Ugland House South Church Street George Town Grand Cayman KY1-1104  Cayman Islands	
		The address of the principal business office of Heights Capital Management, Inc. is:  101 California Street, Suite 3250 San Francisco, California 94111	
Item 2(c).		Citizenship Citizenship is set forth in Row 4 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person.	
Item 2(d)		Title of Class of Securities Common Stock, \$0.0001 par value per share	
Item 2(e)		CUSIP Number 12542Q508	
Item 3.	If thi	s statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:	
	(a)	o Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).	
	(b)	o Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).	
	(c)	o Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).	
	(d)	o Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).	
	(e)	o An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);	
	(f)	o An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);	
	(g)	o A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);	
	(h)	o A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);	

- (i) A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3);
- (j) o A non-U.S. institution in accordance with § 240.13d–1(b)(1)(ii)(J);
- (k) o Group, in accordance with Rule 13d–1(b)(1)(ii)(K). If filing as a non-U.S. institution in accordance with § 240.13d–1(b)(1)(ii)(J), please specify the type of institution:\_\_\_\_\_\_

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CUSIP No: 12542Q508

#### Item 4. Ownership

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

The information required by Items 4(a) - (c) is set forth in Rows 5 - 11 of the cover page for each Reporting Person hereto and is incorporated herein by reference for each such Reporting Person.

The Company's Prospectus Supplement (to Prospectus dated May 23, 2018, Registration No. 333-224881), filed on June 29, 2018 indicates there were 7,053,122 Shares outstanding as of the completion of the offering of the Shares referred to therein.

Heights Capital Management, Inc., which serves as the investment manager to CVI Investments, Inc., may be deemed to be the beneficial owner of all Shares owned by CVI Investments, Inc. Each of the Reporting Persons hereby disclaims any beneficial ownership of any such Shares, except for their pecuniary interest therein.

#### Item 5. Ownership of Five Percent or Less of a Class

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: o

#### Item 6. Ownership of More than Five Percent on Behalf of Another Person

Not applicable.

# Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person

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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#### CUSIP No: 12542Q508

#### Item 10. Certification

By signing below each of the undersigned certifies that, to the best of its knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

#### **SIGNATURES**

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

Dated: July 6, 2018

By: /s/ Brian Sopinsky		
Name: Brian Sopinsky Title: Secretary		
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R OF ATTORNEY		
by CVI Investments, Inc. (hereinafter called "the Company"), whose urch Street, George Town, Grand Cayman, Cayman Islands.		
and Heights Capital Management, Inc., the Company expressly authorized ed areas as defined in the Discretionary Investment Management Agreement		
Company, hereby appoints on behalf of the Company the firm of HEIGHTS d employees is hereby formally granted limited power of attorney for the ompany; and to take all actions on behalf of the Company as may be necessary stiating; signing, endorsing, executing, acknowledging and delivering in the ents, certificates, proxies and any other instruments of whatever kind and f such transactions, instructing the transfer of funds where necessary with der the Discretionary Investment Management Agreement with respect to such		
corney to take effect on the day and year above written.		
CVI Investments, Inc.		
By: /s/ William Walmsley		
William Walmsley, Director		
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## EXHIBIT II

#### JOINT FILING AGREEMENT

This will confirm the agreement by and among the undersigned that the Schedule 13G filed with the Securities and Exchange Commission on or about the date hereof with respect to the beneficial ownership by the undersigned of the shares of Common Stock of CHF Solutions, Inc., \$0.0001 par value per share, is being filed, and all amendments thereto will be filed, on behalf of each of the persons and entities named below in accordance with Rule 13d-1(k) under the Securities Exchange Act of 1934, as amended. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument.

CUSIP No: 12542Q508

CVI INVESTMENTS, INC.

By: Heights Capital Management, Inc. pursuant to a Limited Power of  $\,$ 

Attorney

By: /s/ Brian Sopinsky
Name: Brian Sopinsky Title: Secretary

HEIGHTS CAPITAL MANAGEMENT, INC.

By: /s/ Brian Sopinsky
Name: Brian Sopinsky
Title: Secretary

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