

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

**FORM S-8
REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933**

CHF SOLUTIONS, INC.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of
incorporation or organization)

12988 Valley View Road
Eden Prairie, Minnesota

(Address of Principal Executive Offices)

68-0533453

(I.R.S. Employer Identification No.)

55344

(Zip Code)

**CHF Solutions, Inc. 2017 Equity Incentive Plan
CHF Solutions, Inc. 2013 Non-Employee Directors' Equity Incentive Plan
CHF Solutions, Inc. New-Hire Equity Incentive Plan**

(Full title of the plan)

John L. Erb
Chief Executive Officer
CHF Solutions, Inc.
12988 Valley View Road
Eden Prairie, MN 55344
(952) 345-4200

(Name, address and telephone number, including area code, of agent for
service)

Copies to:

Phillip D. Torrence, Esq.
Honigman LLP
650 Trade Center Way, Ste 200
Kalamazoo, MI 49002
(269) 337-7700

Thomas P. Lynch
Chief Legal and Compliance Officer
CHF Solutions, Inc.
12988 Valley View Road
Eden Prairie, MN 55344
(952) 345-4200

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer
Non-accelerated filer Smaller reporting company
Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

CALCULATION OF REGISTRATION FEE

Title of securities to be registered	Amount to be Registered (1)	Proposed maximum offering price per share (2)	Proposed maximum aggregate offering price (2)	Amount of registration fee
Common Stock, par value \$0.0001 per share	1,789,679	\$0.39975	\$715,424.18	\$92.86

- (1) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended (the "*Securities Act*"), this Registration Statement shall also cover any additional shares of the Registrant's common stock ("*Common Stock*") that become issuable under the Plans (as defined below) by reason of any stock dividend, stock split, recapitalization or any other similar transaction without receipt of consideration that results in an increase in the number of shares of the Registrant's outstanding Common Stock.
- (2) Estimated solely for the purpose of calculating the registration fee pursuant to paragraphs (c) and (h) of Rule 457 under the Securities Act. The offering price per share and aggregate offering price are based upon the average of the high and low prices of the Common Stock as reported on the NASDAQ Capital Market on May 11, 2020, a date within five business days prior to the date of filing of this Registration Statement, for: (i) shares reserved for grant pursuant to the Registrant's 2017 Equity Incentive Plan (the "*2017 EIP*"); (ii) shares reserved for grant pursuant to the Registrant's 2013 Non-Employee Directors' Equity Incentive Plan (the "*Directors' EIP*"); and (iii) shares reserved for grant pursuant to the Registrant's New-Hire Equity Incentive Plan (the "*New-Hire Plan*"); and collectively, with the 2017 EIP and the Directors' EIP, the "*Plans*").

Securities	Number of Shares	Offering Price Per Share	Aggregate Offering Price
Shares reserved for grant under the 2017 EIP	1,468,350(3)	0.39975	\$ 586,972.91
Shares reserved for grant under the Directors' EIP	251,329(4)	0.39975	\$ 100,468.77
Shares reserved for grant under the New-Hire Plan	70,000(5)	0.39975	\$ 27,982.50
Proposed Maximum Offering Price	715,424.18		

- (3) Consists of shares that were automatically added to the shares authorized for issuance under the 2017 EIP on January 1, 2020 pursuant to an "evergreen" provision contained in the 2017 EIP. Pursuant to the 2017 EIP, the share reserve will automatically increase on January 1st of each year, for a period of not more than ten years, commencing on January 1, 2018 and ending on (and including) January 1, 2027, to an amount equal to thirteen percent (13%) of the fully diluted shares outstanding on December 31st of the preceding calendar year;

provided that the Board of Directors may act prior to January 1st of a given year to provide that there will be no January 1st increase in the share reserve for such year or that the increase in the share reserve for such year will be a lesser number of shares than would otherwise occur.

- (4) Consists of shares that were automatically added to the shares authorized for issuance under the Directors' EIP on January 1, 2020 pursuant to an "evergreen" provision contained in the Directors' EIP. Pursuant to the Directors' EIP, the share reserve will automatically increase on January 1st of each year, for a period of not more than ten years, commencing on January 1, 2014 and ending on (and including) January 1, 2023, by an amount equal to two percent (2%) of the fully diluted shares outstanding on December 31st of the preceding calendar year; provided that the Board of Directors may act prior to January 1st of a given year to provide that there will be no January 1st increase in the share reserve for such year or that the increase in the share reserve for such year will be a lesser number of shares than would otherwise occur.
 - (5) Consists of shares reserved for grant under the New-Hire Plan pursuant to a Seventh Amendment to the New-Hire Plan that was approved by the Registrant's Board of Directors on December 5, 2019.
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EXPLANATORY NOTE

This Registration Statement on Form S-8 (the “**Registration Statement**”) is being filed to register (i) an additional 1,468,350 shares of common stock reserved for grant pursuant to an “evergreen provision” of the Registrant’s 2017 Equity Incentive Plan, (ii) an additional 251,329 shares of common stock reserved for grant pursuant to an “evergreen provision” of the Registrant’s 2013 Non-Employee Directors’ Equity Incentive Plan, and (iii) an additional 70,000 shares of common stock reserved for grant pursuant to the Registrant’s New-Hire Equity Incentive Plan.

INCORPORATION BY REFERENCE OF CONTENTS OF REGISTRATION STATEMENTS ON FORM S-8

The contents of the Registration Statements on Form S-8 previously filed with the Securities and Exchange Commission (the “**Commission**”) [on September 14, 2012 \(File No. 333-183925\)](#), [May 30, 2013 \(File No. 333-188935\)](#), [August 9, 2013 \(File No. 333-190499\)](#), [March 18, 2014 \(File No. 333-194642\)](#), [March 20, 2015 \(File No. 333-202904\)](#), [March 15, 2016 \(File No. 333-210215\)](#), [June 2, 2017 \(File No. 333-218464\)](#), [March 23, 2018 \(File No. 333-223879\)](#) and [August 8, 2019 \(File No. 333-233152\)](#) are incorporated by reference herein.

PART I

INFORMATION REQUIRED IN THE SECTION 10(a) PROSPECTUS

The documents containing the information required in this Part I will be delivered to the participants in the Plan, as specified in Rule 428(b)(1) of the Securities Act. Such documents are not required to be filed with the Commission as part of this Registration Statement.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents filed with the Commission by the Registrant are hereby incorporated by reference in this Registration Statement:

(a) The Registrant’s [Annual Report on Form 10-K](#) for the year ended December 31, 2019, filed with the Commission on March 5, 2020 (including information specifically incorporated by reference therein from the Registrant’s [Proxy Statement](#) filed with the Commission on April 13, 2020);

(b) The Registrant’s Quarterly Report on Form 10-Q for the quarter ended March 31, 2020, filed with the Commission on [May 14, 2020](#);

(c) The Registrant’s Current Reports on Form 8-K filed with the Commission on [January 29, 2020](#), [March 20, 2020](#), [March 30, 2020](#), [April 23, 2020](#), [May 4, 2020](#) and [May 12, 2020](#); and

(d) The description of the Registrant’s Common Stock contained in the Registration Statement on [Form 10 \(File No. 001-35312\)](#) filed pursuant to Section 12(b) on September 30, 2011 and all amendments thereto.

In addition, all documents the Registrant subsequently files pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended (the “**Exchange Act**”), after the filing of this Registration Statement and prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities covered hereby then remaining unsold are incorporated by reference in this Registration Statement and are a part hereof from the date of filing of such documents.

Any statement contained in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded for purposes of this Registration Statement to the extent that a statement contained herein, or in any subsequently filed document, which also is or is deemed to be incorporated by reference herein, modifies or supersedes such prior statement. Any such statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute part of this Registration Statement.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Not applicable.

Item 6. Indemnification of Directors and Officers.

The Registrant's Fourth Amended and Restated Certificate of Incorporation, as amended limits the liability of the Registrant's directors to the fullest extent permitted by Delaware law. Delaware law provides that directors of a corporation will not be personally liable for monetary damages for breach of their fiduciary duties as directors, except for liability for any:

- breach of their duty of loyalty to the Registrant or the Registrant's stockholders;
- act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- unlawful payment of dividends or redemption of shares as provided in Section 174 of the Delaware General Corporation Law; or
- transaction from which the directors derived an improper personal benefit.

These limitations of liability do not apply to liabilities arising under federal securities laws and do not affect the availability of equitable remedies such as injunctive relief or rescission.

The Registrant's bylaws provide that it will indemnify and advance expenses to its directors and officers to the fullest extent permitted by law or, if applicable, pursuant to indemnification agreements. The bylaws further provide that the Registrant may choose to indemnify its other employees or agents from time to time. Subject to certain exceptions and procedures, the Registrant's bylaws also require it to advance to any person who was or is a party, or is threatened to be made a party, to any proceeding by reason of the person's service as one of the Registrant's directors or officers all expenses incurred by the person in connection with such proceeding.

Section 145(g) of the Delaware General Corporation Law and the Registrant's bylaws also permit it to secure insurance on behalf of any officer, director, employee or other agent for any liability arising out of his or her actions in connection with their services to us, regardless of whether the Registrant's bylaws permit indemnification. The Registrant maintains a directors' and officers' liability insurance policy.

The Registrant entered into indemnification agreements with each of its directors and executive officers that provide, in general, that the Registrant will indemnify them to the fullest extent permitted by law in connection with their service to the Registrant or on its behalf and, subject to certain exceptions and procedures, that the Registrant will advance to them all expenses that they incur in connection with any proceeding to which they are, or are threatened to be, a party.

At present, there is no pending litigation or proceeding involving any of the Registrant's directors or officers as to which indemnification is required or permitted, and the Registrant is not aware of any threatened litigation or proceeding that may result in a claim for indemnification.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the registrant pursuant to the foregoing provisions, or otherwise, the registrant has been advised that in the opinion of the Securities and Exchange Commission this indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Item 7. Exemption from Registration Claimed.

Not applicable.

Item 8. Exhibits.**EXHIBIT INDEX**

The following exhibits are filed as part of this registration statement.

Exhibit Number	Exhibit Description	Incorporated By Reference			Exhibit Number	Filed Herewith
		Form	File Number	Date of First Filing		
4.1	Fourth Amended and Restated Certificate of Incorporation	10	001-35312	February 1, 2012	3.1	
4.2	Certificate of Amendment to the Fourth Amended and Restated Certificate of Incorporation	8-K	001-35312	January 13, 2017	3.1	
4.3	Certificate of Amendment to Fourth Amended and Restated Certificate of Incorporation	8-K	001-35312	May 23, 2017	3.1	
4.4	Certificate of Amendment to Fourth Amended and Restated Certificate of Incorporation	8-K	001-35312	October 12, 2017	3.1	
4.5	Certificate of Amendment to Fourth Amended and Restated Certificate of Incorporation	8-K	001-35312	January 2, 2019	3.1	
4.6	Second Amended and Restated Bylaws	8-K	001-35312	May 23, 2017	3.2	
4.7	Form of Certificate of Designation of Series A Junior Participating Preferred Stock	8-K	001-35312	June 14, 2013	3.1	
4.8	Form of Certificate of Designation of Preferences, Rights and Limitations of Series F Convertible Preferred Stock	S-1/A	333-221010	November 17, 2017	3.7	
4.10	Certificate of Designation of Preferences, Rights and Limitations of Series H Convertible Preferred Stock	8-K	001-35312	January 29, 2020	3.1	
4.11	Registration Rights Agreement between Sunshine Heart, Inc. and Gambro UF Solutions, Inc. dated August 5, 2016	8-K	001-35312	August 8, 2016	4.1	
5.1	Opinion of Honigman LLP					X
23.1	Consent of Baker Tilly Virchow Krause, LLP					X

23.2	Consent of Honigman LLP					Included in Exhibit 5.1
24	Power of Attorney (included on signature page)					X
99.1	2013 Non-Employee Directors' Equity Incentive Plan†	14A	001-35312	April 5, 2013	App. A	
99.4	New-Hire Equity Incentive Plan†	10-Q	001-35312	August 8, 2013	10.1	
99.5	First Amendment to New- Hire Equity Incentive Plan†	10-Q	001-35312	November 12, 2013	10.1	
99.6	Second Amendment to New-Hire Equity Incentive Plan†	S-8	333-202904	March 20, 2015	99.12	
99.7	Third Amendment to New-Hire Equity Incentive Plan†	S-8	333-210215	March 15, 2016	99.13	
99.8	Fourth Amendment to New-Hire Equity Incentive Plan†	8-K	001-35312	May 30, 2017	10.4	
99.9	Fifth Amendment to New- Hire Equity Incentive Plan†	8-K	001-35312	January 18, 2018	10.1	
99.10	Sixth Amendment to New-Hire Equity Incentive Plan†	10-Q	001-35312	August 8, 2019	10.2	
99.11	Seventh Amendment to New-Hire Equity Incentive Plan†	8-K	001-35312	December 6, 2019	10.1	
99.13	2017 Equity Incentive Plan†	8-K	001-35312	May 30, 2017	10.1	

† Indicates management compensatory plan, contract or arrangement.

Item 9. Undertakings.

(a) The Registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this Registration Statement:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of the Registration Statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the Registration Statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective Registration Statement;

- (iii) to include any material information with respect to the plan of distribution not previously disclosed in the Registration Statement or any material change to such information in the Registration Statement;

provided, however, that paragraphs (a)(1)(i) and (a)(1)(ii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in periodic reports filed with or furnished to the Commission by the Registrant pursuant to Section 13 or 15(d) of the Exchange Act that are incorporated by reference in the Registration Statement; and

- (2) That, for the purpose of determining any liability under the Securities Act, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(b) The Registrant hereby undertakes that, for the purpose of determining any liability under the Securities Act, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Exchange Act (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Exchange Act) that is incorporated by reference in the Registration Statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(c) Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Eden Prairie, State of Minnesota, on May 14, 2020.

CHF SOLUTIONS, INC.

By: /s/ JOHN L. ERB

Name: John L. Erb

Title: Chief Executive Officer

We, the undersigned officers and directors of CHF Solutions, Inc., hereby constitute John L. Erb and Claudia Drayton, as the true and lawful attorneys with full power to them, and each of them singly to sign for us and in our names, in the capacities indicated below the Registration Statement filed herewith and any amendments to said Registration Statement, and generally to do all such things in our name and behalf in our capacities as officers and directors to enable CHF Solutions, Inc. to comply with the provisions of the Securities Act of 1933 and all requirements of the Securities and Exchange Commission, hereby ratifying and confirming our signatures as they may be signed by our said attorneys, or any of them, to said Registration Statement and any and all amendments thereto. Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities and on the dates indicated.

<u>SIGNATURE</u>	<u>TITLE</u>	<u>DATE</u>
<u>/s/ JOHN L. ERB</u> John L. Erb	President, CEO and Chairman (principal executive officer)	May 14, 2020
<u>/s/ CLAUDIA DRAYTON</u> Claudia Drayton	Chief Financial Officer (principal financial and accounting officer)	May 14, 2020
<u>/s/ STEVE BRANDT</u> Steve Brandt	Director	May 14, 2020
<u>/s/ MARIA ROSA COSTANZO</u> Maria Rosa Costanzo	Director	May 14, 2020
<u>/s/ JON W. SALVESON</u> Jon W. Salveson	Director	May 14, 2020
<u>/s/ GREGORY D. WALLER</u> Gregory D. Waller	Director	May 14, 2020
<u>/s/ WARREN S. WATSON</u> Warren S. Watson	Director	May 14, 2020

HONIGMAN

Honigman LLP
Attorneys and Counselors

(269) 337-7700

Fax: (269) 337-7701

May 14, 2020

CHF Solutions, Inc.
12988 Valley View Road
Eden Prairie, MN 55344

RE: Registration Statement on Form S-8

Ladies and Gentlemen:

We have acted as counsel to CHF Solutions, Inc., a Delaware corporation (the “**Company**”), in connection with the preparation and filing of a Registration Statement on Form S-8 (the “**Registration Statement**”) with the Securities and Exchange Commission (the “**Commission**”) for the registration under the Securities Act of 1933, as amended (the “**Securities Act**”), of 1,789,679 shares (the “**Plan Shares**”) of the Company’s Common Stock, \$0.0001 par value per share (the “**Common Stock**”), reserved for issuance pursuant to awards under the Company’s 2017 Equity Incentive Plan, 2013 Non-Employee Directors’ Equity Incentive Plan, and New-Hire Equity Incentive Plan (collectively, the “**Plans**”).

Based on our examination of such documents and other matters as we deem relevant, we are of the opinion that (i) the Plan Shares to be offered by the Company under the respective Plans pursuant to the Registration Statement are duly authorized, and (ii) when issued and sold by the Company in accordance with the applicable Plan and awards thereunder, the Plan Shares, will be validly issued, fully paid and nonassessable.

We hereby consent to the filing of this opinion with the Commission as Exhibit 5.1 to the Registration Statement. In giving such consent, we do not admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the rules and regulations promulgated thereunder by the Commission.

Very truly yours,

/s/ HONIGMAN LLP

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in the Registration Statement on Form S-8 of CHF Solutions, Inc. and subsidiaries of our report dated March 5, 2020, relating to the consolidated financial statements of CHF Solutions, Inc. and subsidiaries (the “Company”), (which report expresses an unqualified opinion on the consolidated financing statements for the year ended December 31, 2019 and includes an explanatory paragraph relating to the substantial doubt about the Company’s ability to continue as a going concern as described in Note 1 to the consolidated financial statements), appearing in the Annual Report on Form 10-K of the Company for the year ended December 31, 2019.

/s/ BAKER TILLY VIRCHOW KRAUSE, LLP
Minneapolis, Minnesota

May 14, 2020
