

6,765,463 Shares of Common Stock Warrants to Purchase up to 7,692,307 Shares of Common Stock Pre-Funded Warrants to Purchase up to 926,844 Shares of Common Stock

This prospectus supplement updates and should be read in conjunction with the prospectus dated January 8, 2021, or the Prospectus, relating to the offering of up to 6,765,463 shares of our common stock, warrants to purchase up to 7,692,307 shares of our common stock and pre-funded warrants to purchase 926,844 shares of our common stock, as well as an option to the underwriter in the offering to purchase up to an additional 1,153,846 shares of common stock and/or warrants to purchase up to 1,153,846 shares of our common stock, in any combination thereof. To the extent that there is any conflict between the information contained herein and the information contained in the Prospectus, the information contained herein supersedes and replaces such information.

Current Report

This prospectus supplement incorporates into the Prospectus the information contained in our attached Current Report on Form 8-K that we filed with the Securities and Exchange Commission on June 24, 2021, or the Form 8-K. The Form 8-K, as filed, is set forth below.

The information contained in this Prospectus Supplement No. 9 supplements and supersedes, in relevant part, the information contained in the Prospectus, as amended and supplemented to date. This Prospectus Supplement No. 9 is incorporated by reference into, and should be read in conjunction with, the Prospectus, as amended and supplemented to date, and is not complete without, and may not be delivered or utilized except in connection with, the Prospectus, as amended and supplemented to date.

The Prospectus, together with Prospectus Supplement No. 1, Prospectus Supplement No. 2, Prospectus Supplement No. 3, Prospectus Supplement No. 4, Prospectus Supplement No. 5, Prospectus Supplement No. 6, Prospectus Supplement No. 7, Prospectus Supplement No. 8 and Prospectus Supplement No. 9, constitutes the prospectus required to be delivered by Section 5(b) of the Securities Act of 1933, as amended, with respect to offers and sales of the securities as set forth in the Prospectus, as amended and supplemented. All references in the Prospectus to "this prospectus" are amended to read "this prospectus (as supplemented and amended to date)."

Our common stock is traded on the Nasdaq Capital Market under the symbol "KMPH." The last reported sale price of our common stock on June 23, 2021 was \$14.30 per share. You are urged to obtain current market quotations for our common stock.

Investing in our securities is highly speculative and involves a significant degree of risk. See "Risk Factors" beginning on page 9 of the Prospectus and the Risk Factors identified in our Annual Report for the year ended December 31, 2020 and in our Quarterly Report for the quarter ended March 31, 2021 for a discussion of information that should be considered before making a decision to purchase our securities.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus supplement is June 24, 2021.

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

		FORM 8-K	
		CURRENT REPORT	
	Pursuant to S	ection 13 or 15(d) of the Securities Excha	nge Act of 1934
	Date of Report (Date of Report	nte of Earliest Event Reported): June 24,	2021 (June 17, 2021)
	(Exac	KemPharm, Inc.	
(St	Delaware ate or Other Jurisdiction of Incorporation)	001-36913 (Commission File Number)	20-5894398 (IRS Employer Identification No.)
	1180 Celebration Boulevard, Suite 103 Celebration, FL (Address of Principal Executive Offices)		34747 (Zip Code)
	Registrant's	Telephone Number, Including Area Code:	(321) 939-3416
	(Former Na	Not Applicable nne or Former Address, if Changed Since	Last Report)
	ck the appropriate box below if the Form 8-K fil wing provisions (see General Instructions A.2. below		he filing obligation of the registrant under any of the
	Written communications pursuant to Rule 425 u	nder the Securities Act (17 CFR 230.425)	
	Soliciting material pursuant to Rule 14a-12 und	er the Exchange Act (17 CFR 240.14a-12)	
	Pre-commencement communications pursuant t	o Rule 14d-2(b) under the Exchange Act (17	7 CFR 240.14d-2(b))
	Pre-commencement communications pursuant to	o Rule 13e-4(c) under the Exchange Act (17	CFR 240.13e-4(c))
Secu	rities registered pursuant to Section 12(b) of the Ac	t:	
Title of each class		Trading Symbol(s)	Name of each exchange on which registered
	Common Stock	КМРН	The Nasdaq Stock Market LLC (Nasdaq Capital Market)
	cate by check mark whether the registrant is an enter) or Rule 12b-2 of the Securities Exchange Act o		e 405 of the Securities Act of 1933 (§ 230.405 of this
Eme	rging growth company $\ \square$		
	emerging growth company, indicate by check mar vised financial accounting standards provided pursu		extended transition period for complying with any new \square

Item 5.07 Submission of Matters to a Vote of Security Holders.

On June 17, 2021, KemPharm, Inc. (the "Company") held its 2021 Annual Meeting of Stockholders (the "2021 Annual Meeting"), for the following purposes:

- to elect the nominees of the board of directors of the Company, Matthew R. Plooster and Joseph B. Saluri, to the Company's board of directors to hold office until the 2024 annual meeting of stockholders;
- to ratify the appointment of RSM US LLP as the independent registered public accounting firm of the Company for its fiscal year ending December 31, 2021;.
- to approve, on an advisory basis, the compensation of the Company's named executive officers as disclosed in the proxy materials;
- to indicate, on an advisory basis, the preferred frequency of stockholder advisory votes on the compensation of the Company's named executive officers;
- to approve the Company's 2021 Employee Stock Purchase Plan; and
- to approve the Company's Amended and Restated 2014 Equity Incentive Plan.

Of the 28,489,300 shares outstanding as of the record date, 15,631,301 shares, or 54.87%, were present or represented by proxy at the 2021 Annual Meeting. At the 2021 Annual Meeting, each of Matthew R. Plooster and Joseph B. Saluri was re-elected as a director of the Company. Also at the 2021 Annual Meeting, the stockholders of the Company:

- ratified the appointment of RSM US LLP as the independent registered public accounting firm of the Company for its fiscal year ending December 31, 2021;
- approved, on an advisory basis, the compensation of the Company's named executive officers as disclosed in the proxy materials;
- indicated, on an advisory basis, a frequency of stockholder advisory votes on the compensation of the Company's named executive officers of 3
 years;
- approved the Company's 2021 Employee Stock Purchase Plan; and
- approved the Company's Amended and Restated 2014 Equity Incentive Plan.

The final voting results on each of the matters submitted to a vote of stockholders at the 2021 Annual Meeting were as follows:

1.	Election of Directors Matthew R. Plooster Joseph B. Saluri	For 6,803,465 3,459,163		Withheld 1,489,665 4,833,967	<u> B</u>	7,338,171 7,338,171
2.	Ratification of the appointment of RSM US LLP as	For	Against Abstenti		bstentions	Broker Non-Votes
۷.	the independent registered public accounting firm for the Company's fiscal year ending December 31, 2021	13,086,299	106,227		2,438,775	_
3.	Approval, on an advisory basis, of the compensation of the Company's named executive officers as disclosed in the proxy materials	6,845,736	1,287,94	4 159,450		7,338,171
		Three Years	Two Years	One Year	Abstain	Broker Non- Votes
4.	Indication, on an advisory basis, of the preferred frequency of stockholder advisory votes on the compensation of the Company's named executive officers	5,017,547	798,429	2,377,505	99,649	7,338,171
		For	For Against		bstentions	Broker Non-Votes
5.	Approval of the Company's 2021 Employee Stock Purchase Plan	7,650,535	548,68	1	93,914	7,338,171
6.	Approval of the Company's Amended and Restated 2014 Equity Incentive Plan	5,913,956	2,189,649 189,		189,525	7,338,171

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

KemPharm, Inc.

Date: June 24, 2021 By: /s/ R. LaDuane Clifton

R. LaDuane Clifton, CPA

Chief Financial Officer, Secretary and Treasurer