SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13D

Under the Securities Exchange Act of 1934 (Amendment ____)*

Werewolf Therapeutics, Inc.

(Name of Issuer)

Common Stock, par value \$0.0001 per share

(Title of Class of Securities)

95075A107

(CUSIP Number)

RA Capital Management, L.P. 200 Berkeley Street, 18th Floor Boston, MA 02116 Attn: Peter Kolchinsky Telephone: 617.778.2500

(Name, Address and Telephone Number of Person Authorized to Receive Notices and Communications)

May 4, 2021

(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. \Box

Note: Schedules filed in paper format shall include a signed original and five copies of the schedule, including all exhibits. See Section 240.13d-7 for other parties to whom copies are to be sent.

* 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, as amended ("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.	Names of Reporting Persons.					
1	RA Capital Management, L.P.					
	Check the Appropriate Box if a Member of a Group (See Instructions) (a) 0					
((b)	0				
39	SEC	EC Use Only				
	Source of Funds (See Instructions) AF					
5. <u>(</u>	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o					
		Citizenship or Place of Organization Delaware				
		7.	Sole Voting Power 0			
Number o Shares Beneficiall		8.	Shared Voting Power 3,968,583			
Owned by Each Reporting Person Wit	g	9.	Sole Dispositive Power 0			
CESOII VVII	,111	10.	Shared Dispositive Power 3,968,583			
11.	11. Aggregate Amount Beneficially Owned by Each Reporting Person 3,968,583					
12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o						
13.	3. Percent of Class Represented by Amount in Row (11) 14.4%					
14.	Type of Reporting Person (See Instructions) IA, PN					
	-					

1.	Nam	Names of Reporting Persons.			
<u>.</u>	Peter Kolchinsky				
	Check the Appropriate Box if a Member of a Group (See Instructions) (a) 0				
	(b)	0			
3	SEC Use Only				
	Source of Funds (See Instructions) AF				
5	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o				
		itizenship or Place of Organization inited States			
		7.	Sole Voting Power 0		
Number o Shares Beneficial		8.	Shared Voting Power 3,968,583		
Owned by Each Reporting Person Wi	g	9.	Sole Dispositive Power 0		
reison wi	uı	10.	Shared Dispositive Power 3,968,583		
11.	11. Aggregate Amount Beneficially Owned by Each Reporting Person 3,968,583				
12.	2. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o				
13.	Percent of Class Represented by Amount in Row (11) 14.4%				
14.		Type of HC, IN	Reporting Person (See Instructions)		
	_				

1.	Nan	Names of Reporting Persons.				
	Raj	Rajeev Shah				
2.	Che (a) (b)					
	(0)	0				
3. SEC Use Only						
4.	Source of Funds (See Instructions) AF					
5.	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o					
6.		Citizenship or Place of Organization United States				
		7.	Sole Voting Power 0			
Number Shares Beneficia		8.	Shared Voting Power 3,968,583			
Owned l Each Reportir	ng	9.	Sole Dispositive Power 0			
Person W	ıtın	10.	Shared Dispositive Power 3,968,583			
11.	11. Aggregate Amount Beneficially Owned by Each Reporting Person 3,968,583					
12.	12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o					
13.		Percent of Class Represented by Amount in Row (11) 14.4%				
14.		Type o	f Reporting Person (See Instructions)			

1. N	Names of Reporting Persons. RA Capital Healthcare Fund, L.P.					
<u> </u>						
	Check the Appropriate Box if a Member of a Group (See Instructions) (a) o					
	b)	0				
3. <u>s</u>						
	Source of Funds (See Instructions) WC					
5. <u>(</u>	Check if Disclosure of Legal Proceedings Is Required Pursuant to Items 2(d) or 2(e) o					
	Citizenship or Place of Organization Delaware					
		7.	Sole Voting Power 0			
Number o Shares Beneficiall	y	8.	Shared Voting Power 3,524,758			
Owned by Each Reporting Person Wit	.	9.	Sole Dispositive Power 0			
CISON VVII		10.	Shared Dispositive Power 3,524,758			
11.	11. Aggregate Amount Beneficially Owned by Each Reporting Person 3,524,758					
12.	12. Check if the Aggregate Amount in Row (11) Excludes Certain Shares (See Instructions) o					
13.	3. Percent of Class Represented by Amount in Row (11) 12.8%					
14.	Type of Reporting Person (See Instructions) PN					

Item 1. Security and Issuer

This Schedule 13D relates to the shares of common stock, \$0.0001 par value per share ("Common Stock"), of Werewolf Therapeutics, Inc., a Delaware corporation (the "Issuer"), which has its principal executive offices at 1030 Massachusetts Avenue, Suite 210, Cambridge, MA 02138.

Item 2. Identity and Background

(a) This Schedule 13D is being filed on behalf of RA Capital Management, L.P. ("RA Capital"), Peter Kolchinsky, Rajeev Shah, and RA Capital Healthcare Fund, L.P. (the "Fund") and are collectively referred to herein as the "Reporting Persons". The agreement among the Reporting Persons to file this Schedule 13D jointly in accordance with Rule 13d-1(k) of the Securities Exchange Act of 1934, as amended, is attached hereto as Exhibit 1.

The Common Stock reported herein includes 3,524,758 shares held by the Fund and 443,825 shares held by RA Capital Nexus Fund II, L.P. (the "Nexus Fund II"). RA Capital Healthcare Fund GP, LLC is the general partner of the Fund and RA Capital Nexus Fund II GP, LLC is the general partner of the Nexus Fund II. The general partner of RA Capital is RA Capital Management GP, LLC, of which Dr. Kolchinsky and Mr. Shah are the controlling persons. RA Capital serves as investment adviser for the Fund and the Nexus Fund II and may be deemed a beneficial owner, for purposes of Section 13(d) of the Securities Exchange Act of 1934 (the "Act"), of any securities of the Issuer held by the Fund or the Nexus Fund II. The Fund and the Nexus Fund II have delegated to RA Capital the sole power to vote and the sole power to dispose of all securities held in the Fund's and the Nexus Fund II's portfolio, including the shares of the Issuer's Common Stock reported herein. Because the Fund and the Nexus Fund II have divested themselves of voting and investment power over the reported securities they hold and may not revoke that delegation on less than 61 days' notice, the Fund and the Nexus Fund II disclaim beneficial ownership of the securities they hold for purposes of Section 13(d) of the Act and therefore disclaim any obligation to report ownership of the reported securities under Section 13(d) of the Act, of any securities of the Issuer beneficially owned by RA Capital. RA Capital, Dr. Kolchinsky, and Mr. Shah disclaim beneficial ownership of the securities reported in this Schedule 13D Statement (the "Statement") other than for the purpose of determining their obligations under Section 13(d) of the Act, and the filing of the Statement shall not be deemed an admission that either RA Capital, Dr. Kolchinsky, or Mr. Shah is the beneficial owner of such securities for any other purpose.

- (b) The address of the principal business office of each of the Reporting Persons is 200 Berkeley Street, 18th Floor, Boston, MA 02116.
- (c) The Fund is a private investment vehicle. RA Capital provides investment management services to the Fund and the Nexus Fund II. The principal occupation of Dr. Kolchinsky and Mr. Shah is investment management.
- (d) During the last five years, none of the Reporting Persons, nor to the Reporting Persons' knowledge, any of the persons listed in Schedule A, has been convicted in a criminal proceeding (excluding traffic violations or similar misdemeanors).
- (e) During the last five years, none of the Reporting Persons, nor to the Reporting Persons' knowledge, any of the persons listed in Schedule A, has been a party to a civil proceeding of a judicial or administrative body of competent jurisdiction and as a result of such proceeding was or is subject to a judgment, decree of final order enjoining future violations of, or prohibiting or mandating activities subject to, federal or state securities laws or finding any violation with respect to such laws.
- (f) See Item 6 of the cover pages.

Item 3. Source and Amount of Funds or Other Consideration

The Reporting Persons acquired beneficial ownership of the shares of the Common Stock in the transactions and at the prices described in Item 5(c). Prior to the Issuer's initial public offering (the "<u>IPO</u>"), the Reporting Persons caused the Fund and the Nexus Fund II to purchase equity interests in the Issuer, and those interests automatically converted into 2,253,583 shares of Common Stock immediately upon completion of the IPO. The Fund and the Nexus Fund II also purchased 1,715,000 shares of Common Stock from the underwriters of the IPO. All purchases were for cash and were funded by working capital of the Fund and the Nexus Fund II.

Item 4. Purpose of Transaction

The Reporting Persons acquired the Common Stock reported herein for investment purposes and not with an intent, purpose or effect of changing control of the Issuer. Although the Reporting Persons currently have no plan or proposal to acquire any additional Common Stock or to dispose of any of the Common Stock reported herein, the Reporting Persons may acquire additional Common Stock from time to time or dispose of Common Stock they beneficially own, consistent with their investment purposes and in amounts to be determined by the Reporting Persons based upon a number of factors, including, without limitation, their ongoing assessment of the Issuer's business prospects, prevailing market conditions, the availability of other investment opportunities, and/or other considerations.

In addition, consistent with their investment purpose, the Reporting Persons may engage in communications with persons associated with the Issuer, including shareholders of the Issuer, officers of the Issuer and/or members of the board of directors of the Issuer, to discuss matters regarding the Issuer, including but not limited to its operations and strategic direction. Derek DiRocco, a Partner of RA Capital, currently serves as a director of the Issuer and therefore will engage in regular discussions with the Issuer's board of directors and management as part of his duties as a director.

The Reporting Persons have no plans or proposals that relate to, or could result in, any of the matters referred to in paragraphs (a) through (j), inclusive, of the instructions to Item 4 of Schedule 13D.

The Reporting Persons may, however, change their purpose and formulate and implement plans or proposals with respect to the Issuer at any time and from time to time. Any such action may be made by the Reporting Persons alone or in conjunction with other shareholders, potential acquirers, financing sources and/or other third parties and could include one or more purposes, plans or proposals that relate to or would result in actions required to be reported herein in accordance with Item 4 of Schedule 13D.

Item 5. Interest in Securities of the Issuer

- (a) The information set forth in rows 11 and 13 of the cover pages to this Schedule 13D is incorporated by reference. The percentage set forth in row 13 is based on 27,539,359 outstanding shares of Common Stock, as reported by the Issuer in its prospectus filed with the Securities and Exchange Commission on April 30, 2021.
- (b) The information set forth in rows 7 through 10 of the cover pages to this Schedule 13D and Item 2 above is incorporated by reference.
- (c) Schedule A sets forth all transactions with respect to the shares of Common Stock effected during the past sixty days by any Reporting Person and is incorporated herein by reference.
- (d) No person (other than the Reporting Persons) is known to have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the shares of Common Stock subject to this Schedule 13D.
- (e) Not applicable.

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

Lock-up Agreement

13D are subject to a lock-up agreement (the "Lock-Up Agreement"), as referenced in the Issuer's prospectus filed with the SEC on April 30, 2021. Pursuant to the Lock-Up Agreement, without the prior written consent of Jefferies LLC, SVB Leerink LLC, and Evercore Group L.L.C., the Fund and the Nexus Fund II may not, subject to limited exceptions, for a period of 180 days from the date of the prospectus, subject to extension in specified circumstances: sell, offer, contract or grant any option to sell (including any short sale), pledge, transfer, establish an open "put equivalent position" within the meaning of Rule 16a-l(h) under the Securities Exchange Act of 1934, as amended; otherwise dispose of any shares of common stock, options or warrants to acquire shares of common stock, or securities exchangeable or exercisable for or convertible into shares of common stock currently or hereafter owned either of record or beneficially; or publicly announce an intention to do any of the foregoing.

Investor Rights Agreement

On December 23, 2020, the Issuer, the Fund and certain other parties entered into an investors' rights agreement (the "Investor Rights Agreement"). Beginning 180 days after the effectiveness of the Issuer's registration statement filed in connection with its initial public offering, the Investor Rights Agreement provides the Fund and other parties thereto with certain demand registration rights, including shelf registration rights, in respect of the shares of Common Stock issued to it upon conversion of the Preferred Shares, subject to certain conditions. The stockholders may only require a total of two registration statements on Form S-1 and three registrations on Form S-3 in a 12-month period. In addition, in the event that the Issuer registers additional shares of Common Stock for sale to the public, it will be required to give notice of such registration to the Fund and certain other parties of its intention to effect such a registration, and, upon request of one or more such parties and subject to certain limitations, include the shares of Common Stock held by them in such registration. The registration rights will expire, with respect to any particular holder, the earlier of i) three years following the Issuer's initial public offering or ii) such time as Rule 144 (or similar exemption) is available for the sale of all of such holder's shares without limitation during a three-month period without registration. The Investor Rights Agreement contains customary cross-indemnification provisions, pursuant to which the Issuer is obligated to indemnify the Fund and other parties in the event of material misstatements or omissions in the registration statement attributable to the Issuer or any violation or alleged violation whether by action or inaction by the Issuer under certain securities laws and the Fund is obligated to indemnify the Issuer for material misstatements or omissions in the registration statement attributable to it.

The description of the Investor Rights Agreement contained in this Item 6 is qualified in its entirety by reference to the full text of the agreement (incorporated by reference to Exhibit 4.2 to the Issuer's Amendment No. 1 to Registration Statement on Form S-1 (File No. 333-255132)).

Item 7. Material to be Filed as Exhibits

Exhibit 1 Joint Filing Agreement

Exhibit 2 Form of Lock-up Agreement (incorporated by reference to Exhibit A of Exhibit 1.1 to the Issuer's Amendment No. 1 to Registration Statement on Form S-1 (File No. 333-255132))

Exhibit 3 Form of Amended and Restated Investors' Rights Agreement (incorporated by reference to Exhibit 4.2 to the Issuer's Amendment No. 1 to Registration Statement on Form S-1 (File No. 333-255132))

SIGNATURES

After reasonable inquiry and to the best of my knowledge and belief, correct.	I certify that the information set forth in this statement is true, complete and
Dated: May 6, 2021	
RA CAPITAL MANAGEMENT, L.P.	
By: /s/ Peter Kolchinsky Name:Peter Kolchinsky Title:Authorized Signatory	
PETER KOLCHINSKY	
/s/ Peter Kolchinsky	_
RAJEEV SHAH	
/s/ Rajeev Shah	_
RA CAPITAL HEALTHCARE FUND, L.P.	
By: RA Capital Healthcare GP, LLC	
By: /s/ Peter Kolchinsky Name:Peter Kolchinsky Title: Manager	_

Schedule A

Name	Date of Transaction	Number of Shares Acquires / (Disposed)	Transaction	Price per Share
RA Capital Healthcare Fund, L.P.	12/23/20	16,606,068 Series B Preferred	Purchase	\$0.92135
RA Capital Healthcare Fund, L.P.	5/4/21	1,915,546 Common Stock	Conversion	(1)
RA Capital Healthcare Fund, L.P.	5/4/21	1,609,212 Common Stock	Purchase	\$16.00
RA Capital Nexus Fund II, L.P.	12/23/20	2,930,482 Series B Preferred	Purchase	\$0.92135
RA Capital Nexus Fund II, L.P.	5/4/21	338,037 Common Stock	Conversion	(1)
RA Capital Nexus Fund II, L.P.	5/4/21	105,788 Common Stock	Purchase	\$16.00

⁽¹⁾ On May 4, 2021, The Series B Preferred Stock automatically converted into Common Stock on a 8.6691-for-one basis without payment of further consideration upon closing of the initial public offering of the Issuer's common stock. The shares had no expiration date.

JOINT FILING AGREEMENT

This Joint Filing Agreement, dated as of May 6, 2021, is by and among RA Capital Management, L.P., Peter Kolchinsky, Rajeev Shah, and RA Capital Healthcare Fund, L.P. (the foregoing are collectively referred to herein as the "Filers").

Each of the Filers may be required to file with the United States Securities and Exchange Commission a statement on Schedule 13G and/or 13D with respect to Common Stock, par value \$0.0001 per share of Werewolf Therapeutics, Inc. beneficially owned by them from time to time.

Pursuant to and in accordance with Rule 13(d)(1)(k) promulgated under the Securities Exchange Act of 1934, as amended, the Filers hereby agree to file a single statement on Schedule 13G and/or 13D (and any amendments thereto) on behalf of each of such parties, and hereby further agree to file this Joint Filing Agreement as an exhibit to such statement, as required by such rule.

This Joint Filing Agreement may be terminated by any of the Filers upon one week's prior written notice or such lesser period of notice as the Filers may mutually agree.

Executed and delivered as of the date first above written.

RA CAPITAL MANAGEMENT, L.P.

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky Title: Authorized Signatory

PETER KOLCHINSKY

/s/ Peter Kolchinsky

RAJEEV SHAH

/s/ Rajeev Shah

RA CAPITAL HEALTHCARE FUND, L.P.

By: RA Capital Healthcare GP, LLC

By: /s/ Peter Kolchinsky

Name: Peter Kolchinsky

Title: Manager