UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

SCHEDULE 13G

Evoke Pharma Inc.

(Name of Issuer)

<u>Common Stock, par value \$0.0001 per share</u>
(Title of Class of Securities)

<u>30049G104</u> (CUSIP Number)

 $\frac{April\ 30,2018}{\text{(Date of Event Which Requires Filing of this Statement)}}$

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:
□ Rule 13d-1(b)
⊠ Rule 13d-1(c)
□ Rule 13d-1(d)
*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 the disclosures provided in a prior cover page.
The information required in 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).

IP No. 30049G104				13G	Page 2 of 10 Pages			
1	NAME OF REP	NAME OF REPORTING PERSONS						
	Moshe Arkin	Moshe Arkin						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See instructions) (a) □ (b) ⊠							
3	SEC USE ONLY							
4 CITIZENSHIP OR PLACE OF ORGANIZATION								
	Israel							
	•	5	SOLE VOTING POWE	ER				
NUMBER OF SHARES		6	SHARED VOTING PC	WER				
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I LIKSOI	V VVIIII	8	SHARED DISPOSITIV	E POWER				
			1,410,946 (*)					
9	AGGREGATE A	AMOUNT I	BENEFICIALLY OWNED B	Y EACH REPORTING PERSON				
	1,410,946 (*)							
10	CHECK IF THE	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See instructions)						
11	PERCENT OF C	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
	9.11% (*) (**)	9.11% (*) (**)						
12	TYPE OF REPO	TYPE OF REPORTING PERSON (See instructions)						
	IN	IN						

^(*) The beneficial ownership of the securities reported herein is described in Item 4(a).

^(**) Based on 15,493,368 shares of Common Stock outstanding as of February 28, 2018 (as provided in the Issuer's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 7, 2018).

P No. 3004	49G104			13G	Page 3 of 10 Pages			
1	NAME OF REI	NAME OF REPORTING PERSONS						
	Sphera Funds M	Sphera Funds Management Ltd.						
2	CHECK THE A	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See instructions) (a) \square						
	` '	(b) ⊠						
3	SEC USE ONL	SEC USE ONLY						
4	CITIZENSHIP	OR PLACE	OF ORGANIZATION					
	Israel							
		5	SOLE VOTING POV	WER				
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PERSON								
		8	SHARED DISPOSIT	TIVE POWER				
			1,410,946 (*)					
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	1,410,946 (*)	1 410 946 (*)						
1,410,946 (*) 10 CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (Se					ES (See instructions)			
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11	PERCENT OF	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9						
	9.11% (*) (**)	9.11% (*) (**)						
12	TYPE OF REP	TYPE OF REPORTING PERSON (See instructions)						
	CO							

^(*) The beneficial ownership of the securities reported herein is described in Item 4(a).

^(**) Based on 15,493,368 shares of Common Stock outstanding as of February 28, 2018 (as provided in the Issuer's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 7, 2018).

CUSIP No. 30049G104				13G	Page 4 of 10 Pages		
1	NAME OF REPORTING PERSONS						
	Sphera Global Healthcare GP Ltd.						
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See instructions)						
	(a) □						
3	(b) ⊠ SEC USE ONLY						
,	OLG GOLD ONLI						
	CITIZENSHIP OR PLACE OF ORGANIZATION						
4	CITIZENSHIP	JR PLACE	OF ORGANIZATION				
	Israel		<u> </u>				
		5	SOLE VOTING PO	OWER			
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REPORTIN PERSON W							
PERSON W	1111	8	SHARED DISPOSITIVE POWER				
			1,410,946 (*)				
9	AGGREGATE A	AMOUNT E		ED BY EACH REPORTING PERSON			
10	1,410,946 (*)						
PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 9.11% (*) (**)							
						12	TYPE OF REPO
СО							

^(*) The beneficial ownership of the securities reported herein is described in Item 4(a).

^(**) Based on 15,493,368 shares of Common Stock outstanding as of February 28, 2018 (as provided in the Issuer's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 7, 2018).

CUSIP No. 30049G104				13G	Page 5 of 10 Pages			
1	NAME OF REPORTING PERSONS							
	Sphera Global Healthcare Management LP							
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See instructions)							
	(a) □							
3	(b) ⊠ SEC USE ONLY							
3	SEC USE OILLI							
4	CITIZENSHIP	OR PLACE	OF ORGANIZATION					
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10	See instructions)							
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9							
	9.11% (*) (**)							
12		ORTING PE	RSON (See instruction	s)				
	CO							
	30							

^(*) The beneficial ownership of the securities reported herein is described in Item 4(a).

^(**) Based on 15,493,368 shares of Common Stock outstanding as of February 28, 2018 (as provided in the Issuer's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 7, 2018).

Item 1. (a) Name of Issuer: Evoke Pharma Inc. Address of Issuer's Principal Executive Offices: (b) 420 Stevens Avenue, Suite 370 Solana Beach, California 92075 Item 2. Name of Person Filing: Moshe Arkin Sphera Funds Management Ltd. Sphera Global Healthcare GP Ltd. Sphera Global Healthcare Management LP (b) Address of Principal Business Office: Moshe Arkin – 6 Hachoshlim St., Herzelia, Israel Sphera Funds Management Ltd. – 21 Ha'arba'ah Street, Tel Aviv 64739, Israel Sphera Global Healthcare GP Ltd. – 21 Ha'arba'ah Street, Tel Aviv 64739, Israel Sphera Global Healthcare Management LP – 21 Ha'arba'ah Street, Tel Aviv 64739, Israel (c) Citizenship: Moshe Arkin – Israel Sphera Funds Management Ltd. – Israel Sphera Global Healthcare GP Ltd. – Israel Sphera Global Healthcare Management LP – Israel

(d) <u>Title of Class of Securities</u>:

Common Stock, par value \$0.0001 per share

(e) <u>CUSIP Number</u>:

30049G104

Item 3. Not applicable.

Item 4. <u>Ownership</u>:

(a) <u>Amount beneficially owned</u>:

See row 9 of cover page of each reporting person.

The securities reported herein are beneficially owned as follows:

- 1,348,379 shares of Common Stock, representing a total of 8.70% of the total shares of Common Stock outstanding, are held directly by Sphera Global Healthcare Master Fund, which has delegated its investment management authority to Sphera Global Healthcare Management Ltd. (the "Management Company").
- · 30,473 shares of Common Stock, representing a total of 0.20% of the total shares of Common Stock outstanding, are held directly by HFR HE Sphera Global Healthcare Master Trust, which has delegated its investment management authority to the Management Company.
- 32,094 shares of Common Stock, representing a total of 0.21% of the total shares of Common Stock outstanding, are held directly by Sphera Biotech Master Fund, L.P., which has delegated its investment management authority to the Management Company.

The Management Company is managed, controlled, and operated by its general partner, Sphera Global Healthcare GP Ltd., which is controlled jointly by Sphera Funds Management Ltd. and Moshe Arkin.

This Statement shall not be construed as an admission by any of the Reporting Persons that it is the beneficial owner of any of the securities covered by this Statement, and each Reporting Person disclaims beneficial ownership of any such securities. In addition, the Reporting Persons and other entities named in this Schedule 13G may be deemed to constitute a "group" for purposes of Section 13(d) of the Securities Exchange Act of 1934. Neither the filing of this Schedule 13G nor any of its contents shall be deemed to constitute an admission that a group exists for purposes of Section 13(d) of the Securities Exchange Act of 1934 or for any other purpose, and each of the Reporting Persons and other entities named in this Schedule 13G disclaims the existence of any such group.

(b) <u>Percent of class</u>:

See row 11 of cover page of each reporting person

- (c) <u>Number of shares as to which such person has:</u>
 - (i) Sole power to vote or to direct the vote:

See row 5 of cover page of each reporting person

(ii) Shared power to vote or to direct the vote:

See row 6 of cover page of each reporting person and note in Item 4(a) above

(iii) Sole power to dispose or to direct the disposition of:

See row 7 of cover page of each reporting person

(iv) Shared power to dispose or to direct the disposition of:

See row 8 of cover page of each reporting person and note in Item 4(a) above

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

Not applicable.

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

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. <u>Identification and Classification of Members of the Group:</u>

Not applicable.

Item 9. <u>Notice of Dissolution of Group</u>:

Not applicable.

Item 10. <u>Certification</u>:

By signing below I certify that, to the best of my 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.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

May 8, 2018

Moshe Arkin

/s/ Moshe Arkin

By: Moshe Arkin

Sphera Funds Management Ltd.

/s/ Ori Goldfarb

By: Ori Goldfarb

Title: Chief Executive Officer

Sphera Global Healthcare GP Ltd.

/s/ Ori Goldfarb

By: Ori Goldfarb

Title: Chief Executive Officer

Sphera Global Healthcare Management LP

/s/ Doron Breen

By: Doron Breen Title: Managing Partner

EXHIBIT NO. DESCRIPTION

Exhibit 1 Joint Filing Agreement by and among the Reporting Persons, dated as of May 8, 2018.

Joint Filing Agreement

Pursuant to Rule 13d-1(k)(1) under the Securities Exchange Act of 1934, as amended, the undersigned hereby agree that only one statement containing the information required by Schedule 13G need be filed with respect to the ownership by each of the undersigned of shares of Evoke Pharma Inc. Each of them is responsible for the timely filing of such Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate. In accordance with Rule 13d-1(k)(1), the undersigned hereby agree to the joint filing with each other on behalf of each of them of such a statement on Schedule 13G and any amendments thereto with respect to the equity securities (as defined in Rule 13d-1(i)) of the Issuer, beneficially owned by each of them. This Joint Filing Agreement shall be included as an exhibit to such Schedule 13G and any amendments thereto.

This agreement may be executed in any number of counterparts, each of which shall be deemed an original.

May 8, 2018

Moshe Arkin

/s/ Moshe Arkin

By: Moshe Arkin

Sphera Funds Management Ltd.

/s/ Ori Goldfarb

By: Ori Goldfarb

Title: Chief Executive Officer

Sphera Global Healthcare GP Ltd.

/s/ Ori Goldfarb

By: Ori Goldfarb

Title: Chief Executive Officer

Sphera Global Healthcare Management LP

/s/ Doron Breen

By: Doron Breen Title: Managing Partner