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

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**SCHEDULE 13G**

**Under the Securities Exchange Act of 1934  
(Amendment No. )\***

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**Deciphera Pharmaceuticals, Inc.**  
(Name of Issuer)

**Common Stock**  
(Title of Class of Securities)

**24344T101**  
(CUSIP Number)

**December 31, 2017**  
(Date of Event which Requires filing of this Statement)

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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).

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1	Names of Reporting Persons	
	<b>Brightstar Associates LLC</b>	
2	Check the Appropriate Box if a Member of a Group (a) <input type="checkbox"/> (b) <input type="checkbox"/>	
3	SEC Use Only	
4	Citizen or Place of Organization <b>Missouri</b>	
Number of Shares Beneficially Owned by Each Reporting Person With	5	Sole Voting Power <b>16,572,370</b>
	6	Shared Voting Power <b>0</b>
	7	Sole Dispositive Power <b>16,572,370</b>
	8	Shared Dispositive Power <b>0</b>
9	Aggregate Amount Beneficially Owned by Each Reporting Person <b>16,572,370</b>	
10	Check if the Aggregate Amount in Row (9) Excludes Certain Shares <input type="checkbox"/>	
11	Percent of a Class Represented by Amount in Row 9 <b>50.8%</b>	
12	Type of Reporting Person <b>Limited Liability Company</b>	

**ITEM 1. (a) Name of Issuer:**

Deciphera Pharmaceuticals, Inc. (the "Issuer").

**(b) Address of Issuer's Principal Executive Offices:**

500 Totten Pond Road  
Waltham, MA 02451

**ITEM 2. (a) Name of Person Filing:**

This statement is filed on behalf of Brightstar Associates LLC (the "Reporting Person").

**(b) Address or Principal Business Office:**

The business address of the Reporting Person is 1020 Central Street, Suite 300, Kansas City, Missouri 64105.

**(c) Citizenship of each Reporting Person is:**

The Reporting Person is incorporated in the State of Missouri.

**(d) Title of Class of Securities:**

Common Stock, par value \$0.01 per share (the "Common Stock").

**(e) CUSIP Number:**

24344T101

**ITEM 3.**

Not applicable.

**ITEM 4. Ownership**

The ownership information presented below represents beneficial ownership of shares of Common Stock of the Issuer as of December 31, 2017, based upon 32,591,686 shares of Common Stock outstanding as of October 31, 2017.

**(a) Amount beneficially owned:**

The Reporting Person is the record holder of 16,572,370 shares of Common Stock. The Reporting Person is managed by a three-person managing board consisting of Mark K. Fallon, Gary L. Muller and Timothy Fritzel, and all action relating to the voting or disposition of these shares requires approval of a majority of the board. Such individuals expressly disclaim any beneficial ownership over the shares held by the Reporting Person.

**(b) Percent of class:** 50.8%

**(c) Number of shares as to which the person has:**

- (i) Sole power to vote or to direct the vote: 16,572,370
- (ii) Shared power to vote or direct the vote: 0
- (iii) Sole power to dispose or to direct the disposition of: 16,572,370
- (iv) Shared power to dispose or to direct the disposition of: 0

**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 Person**

Not applicable.

**ITEM 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company**

Not applicable.

**ITEM 8. Identification and Classification of Members of the Group**

Not applicable.

**ITEM 9. Notice of Dissolution of Group**

Not applicable.

**ITEM 10. Certification**

Not applicable.

**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.

**Date:** January 26, 2018

**Brightstar Associates LLC**

By: /s/ Mark Fallon

Name: Mark Fallon

Title: Member – Board of Managers