

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden	
hours per response:	0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* <u>Allen Patricia L</u> (Last) (First) (Middle) <u>C/O DECIPHERA PHARMACEUTICALS, INC.</u> <u>500 TOTTEN POND ROAD</u> (Street) <u>WALTHAM MA 02451</u> (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>Deciphera Pharmaceuticals, Inc. [DCPH]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) <u>10/02/2017</u>	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	(A)	(D)	Date Exercisable	Expiration Date						Title
Stock Option (Right to Buy)	\$3.95	10/02/2017		M			6,236 ⁽¹⁾	(2)	09/26/2026	Common Stock	35,233	(1)	0	D	
Stock Option (Right to Buy)	\$3.95	10/02/2017		M			35,233 ⁽³⁾	(2)	09/26/2026	Common Stock	35,233	(1)	35,233	D	
Stock Option (Right to Buy)	\$6.13	10/02/2017		M			1,271 ⁽¹⁾	(4)	06/03/2027	Common Stock	7,181	(1)	0	D	
Stock Option (Right to Buy)	\$6.13	10/02/2017		M			7,181 ⁽³⁾	(4)	06/03/2027	Common Stock	7,181	(1)	7,181	D	

Explanation of Responses:

- Immediately prior to the closing of the Issuer's initial public offering, these options to purchase common stock of Deciphera Pharmaceuticals, LLC were exchanged for options to purchase common stock of the Issuer on a 1 for 5.65 basis pursuant to that certain Reorganization Agreement and Plan of Merger by and among the Issuer, Deciphera Pharmaceuticals, LLC and the other parties named therein, dated September 26, 2017 (the "Merger Agreement"). These transactions were exempt from Section 16(b) in reliance upon Rule 16b-3 and Rule 16b-6(b).
- This stock option award was issued pursuant to Deciphera Pharmaceuticals, LLC's 2015 Equity Incentive Plan. The option vests in 48 equal monthly installments at the end of each month following the vesting commencement date of September 27, 2016, subject to continued service through such dates.
- Represents the total number of options to purchase common stock of the Issuer received upon the exchange of options to purchase common stock of Deciphera Pharmaceuticals, Inc. for options to purchase common stock of the Issuer pursuant to the Merger Agreement.
- This stock option award was issued pursuant to Deciphera Pharmaceuticals, LLC's 2015 Equity Incentive Plan. The option vests in 48 equal monthly installments at the end of each month following the vesting commencement date of May 26, 2017, subject to continued service through such dates.

Remarks:

/s/ Thomas P. Kelly, Attorney-in-Fact 10/02/2017

** Signature of Reporting Person Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.