

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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 * Brown Bob D (Last) (First) (Middle) C/O DICERNA PHARMACEUTICALS, INC. 33 HAYDEN AVENUE (Street) LEXINGTON MA 02421 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol Dicerna Pharmaceuticals Inc [DRNA]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below) See Remarks
	3. Date of Earliest Transaction (Month/Day/Year) 12/30/2019	
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			
Common Stock	12/30/2019		M		8,185	A	\$3.42	17,855	D	
Common Stock	12/30/2019		M		4,951	A	\$2.97	22,806	D	
Common Stock	12/30/2019		S ⁽¹⁾		21,466	D	\$21.8445 ⁽²⁾	1,340	D	
Common Stock	12/30/2019		S ⁽¹⁾		1,340	D	\$22.0051 ⁽³⁾	0	D	
Common Stock	12/31/2019		M		5,000	A	\$3.42	5,000	D	
Common Stock	12/31/2019		M		11,941	A	\$2.97	16,941	D	
Common Stock	12/31/2019		S ⁽¹⁾		11,941	D	\$22	5,000	D	

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					
Employee Stock Option (Right to Buy)	\$3.42	12/30/2019		M			8,185	(4)	09/24/2023	Common Stock 8,185	\$0.00	106,659	D	
Employee Stock Option (Right to Buy)	\$2.97	12/30/2019		M			4,951	(5)	01/03/2027	Common Stock 4,951	\$0.00	70,049	D	
Employee Stock Option (Right to Buy)	\$3.42	12/31/2019		M			5,000	(4)	09/24/2023	Common Stock 5,000	\$0.00	101,659	D	

**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	Amount or Number of Shares				
Employee Stock Option (Right to Buy)	\$2.97	12/31/2019		M			11,941	(5)	01/03/2027	Common Stock	11,941	\$0.00	58,108	D	

Explanation of Responses:

- The sales reported in this Form 4 were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person on November 27, 2019.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$21.45 to \$22.17, inclusive. The reporting person undertakes to provide to Dicerna Pharmaceuticals, Inc., any security holder of to Dicerna Pharmaceuticals, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (2) to this Form 4.
- The price reported in Column 4 is a weighted-average price. These shares were sold in multiple transactions at prices ranging from \$22.00 to \$22.17, inclusive. The reporting person undertakes to provide to Dicerna Pharmaceuticals, Inc., any security holder of to Dicerna Pharmaceuticals, Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the ranges set forth in footnote (3) to this Form 4.
- The option vested 1/48 monthly on last day of each month with the vesting start date of 7/30/2013.
- The option vests in 48 monthly installments over the four-year period starting on the last day of January 2017, subject in each case to the reporting person's continued service with the issuer through the applicable vesting date.

Remarks:

EVP of R&D, Chief Scientific Officer

/s/ John B. Green, attorney-in-fact 12/31/2019

** 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.