

**FORM 5****UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

**OMB APPROVAL**

OMB Number: 3235-0362

Estimated average burden

hours per response: 1.0

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

**ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

☐ Form 3 Holdings Reported.

☒ Form 4 Transactions Reported.

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

<b>1. Name and Address of Reporting Person*</b> <u>GIANAKAKOS ANASTASIOS</u>  (Last) (First) (Middle) <u>C/O MYOKARDIA, INC.</u> <u>333 ALLERTON AVENUE</u>  (Street) <u>SOUTH SAN FRANCISCO</u> <u>CA</u> <u>94080</u>  (City) (State) (Zip)	<b>2. Issuer Name and Ticker or Trading Symbol</b> <u>MyoKardia Inc [ MYOK ]</u>	<b>5. Relationship of Reporting Person(s) to Issuer</b> (Check all applicable)  <input checked="" type="checkbox"/> Director 10% Owner <input checked="" type="checkbox"/> Officer (give title below) Other (specify below)  <u>CEO and President</u>
	<b>3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)</b> <u>12/31/2017</u>	

**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 at end of Issuer's Fiscal Year (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
				Amount	(A) or (D)	Price			
Common Stock	11/20/2017		G	181,169	D	\$0.00	0	I	By Reporting Person's Trust 1
Common Stock	11/20/2017		G	144,569	A	\$0.00	653,686	D	
Common Stock	11/20/2017		G	12,200	A	\$0.00	12,200	I	By Trust 1
Common Stock	11/20/2017		G	12,200	A	\$0.00	12,200	I	By Trust 2
Common Stock	11/20/2017		G	12,200	A	\$0.00	12,200	I	By Trust 3
Common Stock	12/04/2017		M4 <sup>(1)</sup>	6,677	A	\$1.5068	660,363	D	
Common Stock	12/07/2017		G	6,677	D	\$0.00	653,686	D	
Common Stock	12/07/2017		G	6,677	A	\$0.00	6,677	I	By Reporting Person's Trust 2
Common Stock	12/15/2017		G	579,296	D	\$0.00	74,390	D	
Common Stock	12/15/2017		G	579,296	A	\$0.00	585,973	I	By Reporting Person's Trust 2
Common Stock	12/22/2017		G	500,000	D	\$0.00	85,973	I	By Reporting Person's Trust 2
Common Stock	12/22/2017		G	500,000	A	\$0.00	574,390	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)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Option (Right to Buy)	\$1.5068	12/04/2017		M <sup>(1)</sup>		6,677	(2)	06/03/2025	Common Stock	6,677	\$0.00	151,235	D	

**Explanation of Responses:**

1. This transaction was effective pursuant to a Rule 10b5-1 trading plan adopted by the Reporting Person.
2. 25% of the shares subject to the option vested and became exercisable on June 4, 2016, and the remaining shares subject to this option vest and become exercisable in monthly installments through June 4, 2019.

**Remarks:**

/s/ Jake Bauer, Attorney-in-Fact      02/16/2018

\*\* 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.

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