FORM 3

501 2ND STREET, SUITE 350

94107

SAN FRANCISCO CA

(Street)

## **UNITED STATES SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF **SECURITIES**

OMB APPROVAL OMB Number: Estimated average burden

0.5

				SECURITIES				hours pe	er response:	0.5	
				n 16(a) of the Securities Exchange of the Investment Company Act of							
1. Name and Address of Reporting Person*  SAM Ventures IV, L.P.  2. Date of Event Requiring Statement (Month/Day/Year) 03/27/2018			ent tement ear)	3. Issuer Name and Ticker or Trading Symbol Homology Medicines, Inc. [ FIXX ]							
(Last) (First) (Middle) 501 2ND STREET, SUITE 350	irst) (Middle)			Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director X 10% Owner				5. If Amendment, Date of Original Filed (Month/Day/Year)			
(Street) SAN FRANCISCO CA 94107			Officer (give title Other (specify below)				6. Individual or Joint/Group Filing (Check Applicable Line)  Form filed by One Reporting Person  X Form filed by More than One Reporting Person				
(City) (State) (Zip)											
Table I - Non-Deriva  1. Title of Security (Instr. 4)				ative Securities Beneficia  2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownersh Form: Dire or Indirect (Instr. 5)	cṫ (D)	4. Nature of Indirect Beneficial Ownership (Instr. 5)				
Common Stock				1,330,039	<del>                                     </del>		See footnotes <sup>(1)(5)</sup>				
	(e			ve Securities Beneficially rants, options, convertibl		s)					
1. Title of Derivative Security (Instr. 4)		2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securit Underlying Derivative Securit		4. Conversion or Exercise Price of Derivative Security		5. Ownership Form: Direct (D)	6. Nature of Ind Beneficial Own (Instr. 5)		
		Date Expiratio		Title	Amount or Number of Shares			or Indirect (I) (Instr. 5)			
Series A Preferred Stock		(2)	(2)	Common Stock	4,204,502	(2	)	I	See footnotes	(3)(5)	
Series B Preferred Stock		(2)	(2)	Common Stock	1,187,535	(2	)	I	See footnotes	(4)(5)	
1. Name and Address of Reporting Person* <u>5AM Ventures IV, L.P.</u>											
(Last) (First) 501 2ND STREET, SUITE 350	(Middle)										
(Street) SAN FRANCISCO CA	94107										
(City) (State)	(Zip)										
1. Name and Address of Reporting Person* <u>5AM Co-Investors IV, L.P.</u>											
(Last) (First) 501 2ND STREET, SUITE 350	(Middle)										
(Street) SAN FRANCISCO CA	9410	7	_								
(City) (State)	(Zip)										
1. Name and Address of Reporting Person* <u>5AM Partners IV, LLC</u>											
(Last) (First)	(Middle)										

(City)	(State)	(Zip)			
1. Name and Address of Reporting Person*  ROCKLAGE SCOTT M					
(Last) 501 2ND STREET,	(First) SUITE 350	(Middle)			
(Street) SAN FRANCISCO	94107				
(City)	(State)	(Zip)			
Name and Address of Reporting Person*     DIEKMAN JOHN D					
(Last) 501 2ND STREET,	.ast) (First) 01 2ND STREET, SUITE 350				
(Street) SAN FRANCISCO	CA	94107			
(City)	(State)	(Zip)			
Name and Address of Reporting Person*     Schwab Andrew J.					
(Last) 501 2ND STREET,	(First) SUITE 350	(Middle)			
(Street) SAN FRANCISCO	CA	94107			
(City)	(State)	(Zip)			

## **Explanation of Responses:**

- 1. Includes 1,276,838 shares of Common Stock held by 5AM Ventures IV, L.P. ("Ventures IV") and 53,201 shares of Common Stock held by 5AM Co-Investors IV, L.P. ("Co-Investors IV").
- 2. The Series A Preferred Stock and Series B Preferred Stock is convertible into the Issuer's Common Stock on a one-for-one basis at the holder's election and has no expiration date. The Series A Preferred Stock and Series B Preferred Stock will automatically convert into Common Stock upon the closing of the Issuer's initial public offering.
- 3. Includes 4,036,323 shares of Series A Preferred Stock held by Ventures IV and 168,179 shares of Series A Preferred Stock held by Co-Investors IV.
- 4. Includes 1,140,034 shares of Series B Preferred Stock held by Ventures IV and 47,501 shares of Series B Preferred Stock held by Co-Investors IV.
- 5. 5AM Partners IV, LLC ("Partners IV") is the sole general partner of Ventures IV and Co-Investors IV. Dr. John Diekman, Andrew J. Schwab and Dr. Scott M. Rocklage, are the managing members of Partners IV, and have shared voting and investment power over the shares beneficially owned by Ventures IV and Co-Investors IV. Each of Partners IV, Dr. Diekman, Mr. Schwab, and Dr. Rocklage disclaim beneficial ownership of such shares except to the extent of its or their pecuniary interest therein.

5AM VENTURES IV, L.P. By: 5AM Partners IV, LLC, its General Partner /s/ Scott M. 03/27/2018 Rocklage Scott M. Rocklage Managing Member 5AM CO-VENTURES IV, L.P. By: 5AM Partners IV, LLC, its 03/27/2018 General Partner /s/ Scott M. Rocklage Scott M. Rocklage Managing Member 5AM PARTNERS IV, LLC /s/ Scott M. Rocklage Scott M. Rocklage Managing Member /s/ Scott M. Rocklage Scott M. 03/27/2018 Rocklage /s/ John D. Diekman John D. Diekman /s/ Andrew J. Schwab Andrew J. Schwab

\*\* Signature of Reporting Person Date

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

- $^{\star}$  If the form is filed by more than one reporting person, see Instruction 5 (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.