## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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*  HAASER CHARLES B  (Last) (First) (Middle)  C/O YIELD10 BIOSCIENCE, INC.  19 PRESIDENTIAL WAY						Issuer Name and Ticker or Trading Symbol     YIELD10 BIOSCIENCE, INC. [ YTEN ]      Just of Earliest Transaction (Month/Day/Year)     04/01/2019  4. If Amendment, Date of Original Filed (Month/Day/Year)										(Check X 6. Indi	is. Relationship of Reporting Perso Check all applicable) Director X Officer (give title below) VP Fin & Chief Accti				wner (specify Cer
(Street) WOBUR	Street) WOBURN MA 01801															Line) X	Form	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(St		Zip)																		
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)					action	2A. Deemed Execution Date			, ur)	3. Transa Code (I 8)	ction nstr.	4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				or 5. Amount Securities Beneficial Owned For Reported		unt of ties Forcially (I) Following ed		Ownership m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock 04/02						2019				Code F	V	Amount 245 <sup>(1)</sup>	(D)		Pri	1.16	(Instr.	(Instr. 3 and 4) 2,276		D	
Common Stock																	15,624 <sup>(2)</sup>			I	By 401(k) Plan
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) (Month/Day/Year)  3. Transaction Execution Date, if any (Month/Day/Year)			Date,	4. Transaction Code (Instr. 8)		1 of			Date Ex xpiration donth/Da	n Date	r) A Si		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Deri Sec (Ins	rice of vative urity tr. 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)				expiration Date	Titl	or Nu of	ımber	er					

## **Explanation of Responses:**

- 1. Represents shares withheld in payment of withholding taxes upon vesting of RSUs granted 4/1/15.
- 2. Shares acquired as Company matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

/s/ Megan N. Gates, attorneyin-fact

04/03/2019

\*\* 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.