FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPRO	VAL							
	OMB Number:	3235-0287							
l	Estimated average burden								
l	hours per response:	0.5							

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*  HAASER CHARLES B  (Last) (First) (Middle)  C/O YIELD10 BIOSCIENCE, INC.  19 PRESIDENTIAL WAY						Suer Name and Ticker or Trading Symbol     YIELD10 BIOSCIENCE, INC. [ YTEN ]  3. Date of Earliest Transaction (Month/Day/Year) 04/01/2017									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  X Officer (give title Other (specific below) below)  VP Fin & Chief Accting Officer						
(Street) WOBURN MA 01801  (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person						
		Tabl	e I - Noi	1		_				Dis	posed o										
1. Title of Security (Instr. 3)  2. Transa Date (Month/Date)						Exec ay/Year) if any		a. Deemed secution Date, any onth/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4			nd Se Be Ov	Amount of curities neficially ned Following	For (D)	Ownership rm: Direct or Indirect (Instr. 4)	7. Nature of Indirect Beneficial Ownership		
					Code	v	Amount	Amount (A)		Price	Tra	oorted nsaction(s) str. 3 and 4)			(Instr. 4)						
Common	Stock			04/01	L/ <b>201</b> 7	7			F		2,673(	1)	D	\$ <mark>0</mark> .	37	27,892 D					
Common Stock																21,284 <sup>(2)</sup>		I	By 401(k) Plan		
		Та									sed of, onvertib				y Own	ed					
1. Title of Derivative Security (Instr. 3)	Conversion or Exercise (Month/Day/Year) Execution Date, if any (Month/Day/Year) Security Execution Date, if any (Month/Day/Year) (Month/Day/Year) Security Execution Date, if any (Month/Day/Year) Security Execution Date, if any (Month/Day/Year) Security (Month/Day/Year) Security Security (Month/Day/Year)				of Deriv Secu Acqu (A) o Disp	r osed ) r. 3, 4	6. Date E Expiration (Month/D	on Date	9	Amount of Securities Underlying Derivative Security (Instr. and 4)		ount	8. Price Derivati Security (Instr. 5)	e derivative	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)				

## **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, attorney-

04/04/2017

in-fact

\*\* 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.