FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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OMB APPROVAL 3235-0287 STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP Estimated average burden

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

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1. Name and Address of Reporting Person*						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]							5. Relationship of Reporting Person(s) to Issuer (Check all applicable)						
<u>Peoples Oliver P</u>					TIEST BIOSCIETOE, ITTEL								X	X Director			10% Ov	vner	
(Last) (First) (Middle)				Date of Earliest Transaction (Month/Day/Year)								X	Officer (give title below)			Other (s	specify		
C/O YIELD10 BIOSCIENCE, INC.				02/11/2021								Pres & CEO							
19 PRESIDENTIAL WAY																			
					4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) WOBUR	N M	A 0	1801											1 ′	X Form filed by One Reporting Person				
															Form filed by More than One Reporting Person				orting
(City)	(Sta	ate) (Ž	Zip)																
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transacti Date (Month/Day				Execution Date,		3. Transaction Code (Instr. 8) 4. Securities Acquired (A Disposed Of (D) (Instr. 3, 5)					ies cially Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)					
							Code	v	Amount	(A) (D)	or Pr	ice	Transa	saction(s) : 3 and 4)			(111501. 4)		
Common Stock 02/11			02/11/2	.021		F		866(1)	D	\$	22.77	5,087			D				
Common	ommon Stock												3,779 ⁽²⁾			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)	if any	emed ion Date, /Day/Year)	4. Transa Code (I 8)	5. Number of Expiration Date (Month/Day/Year) Constructives Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		ite	Amount of Securities Underlying Derivative Security (Ins 3 and 4)		De Se (Ir	8. Price of Derivative Security (Instr. 5) (Instr. 5) 9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)		y [0	0. Dwnership Form: Direct (D) or Indirect I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			
													Amou or Numb						

Date Exercisabl

Explanation of Responses:

- 1. Represents shares withheld in payment of withholding taxes upon vesting of RSUs granted 2/11/20.
- 2. Shares acquired as Company matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

/s/ Megan N. Gates, attorney-

in-fact

Expiration Date

** Signature of Reporting Person Date

02/16/2021

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.