FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
notruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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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* Peoples Oliver P						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]										all app Direct Office	er (give title	g Pers	10% C	wner (specify		
(Last)	(Fi	,	(Middle)				of Earlies 2019	st Trans	action (N	1onth/	Day/Year)				below) below) Pres & CEO							
C/O YIELD10 BIOSCIENCE, INC.					10/0	J 1 / 2	2013								Pres & CEO							
19 PRESIDENTIAL WAY														_								
(Street) WOBURN MA 01801					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						
(City)	(St	ate) (Zip)												Person							
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																					
Date				Date	Fransaction te onth/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)				4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				and Secu Bene Own		cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount		(A) or (D)	Price	, I	Reported Transaction(s) (Instr. 3 and 4)				(11150.4)		
Common Stock 10/0					/2019				P		9,178(1	L)	A	\$0.	56 ⁽²⁾		6,806		D			
Common Stock 10/0					2/2019				P	Р 822			A	\$0.	53 ⁽³⁾	67,628			D			
Common Stock															24		24,124 ⁽⁴⁾		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)	3A. Deem Execution if any (Month/D	n Date,	ate, Transact Code (In:		n of Deriv Secu Acqu (A) or Disposof (D) (Instr	of E		Exercion Dat Day/Ye		Am Sec Und Der Sec	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Pric Deriv Secui (Instr.	vative irity r. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ov Fo Di or (I)). wnership orm: irect (D) r Indirect i (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v					Expiration Date	or Nu of		nount mber ares								

Explanation of Responses:

- 1. These shares were purchased pursuant to a Rule 10b5-1 buying plan adopted by the reporting person on June 3, 2019.
- 2. Represents the weighted average sales price for the shares purchased. Sales prices for this transaction ranged from \$0.53 to \$0.56. The reporting person undertakes to provide, upon request by the Securities and Exchange Commission staff, Yield10 Bioscience, Inc., or a security holder of Yield10 Bioscience, Inc., full information regarding the number of shares purchased at each separate price.
- 3. Represents the weighted average sales price for the shares purchased. Sales prices for this transaction ranged from \$0.53 to \$0.535. The reporting person undertakes to provide, upon request by the Securities and Exchange Commission staff, Yield10 Bioscience, Inc., or a security holder of Yield10 Bioscience, Inc., full information regarding the number of shares purchased at each separate price.
- 4. These shares were acquired as Company matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

/s/ Megan N. Gates, attorneyin-fact

10/02/2019

** 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.