FORM 4

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

Washington, D.C. 20549

<b>STATEMENT</b>	OF CHANGE	S IN BENEF	ICIAL (	OWNER!	SHIP

OMB APPROVAL									
OMB Number: 3235-									
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

1. Name and Address of Reporting Person*  Peoples Oliver P  (Last) (First) (Middle)  C/O YIELD10 BIOSCIENCE, INC.  19 PRESIDENTIAL WAY					- <u>Y</u>	Susuer Name and Ticker or Trading Symbol     YIELD10 BIOSCIENCE, INC. [ YTEN ]      Just of Earliest Transaction (Month/Day/Year)     02/10/2022									(Ch	is. Relationship of Reporting Pe Check all applicable)  X Director  X Officer (give title below)  Pres and (				10% Ov Other (s below)	vner	
(Street) WOBUR (City)		tate)	01801 (Zip)		-	4. If Amendment, Date of Original Filed (Month/Day/Year)										e) X F F P	Form filed by More than One Reporting Person					
4 Tido of 6			le I - No			_			÷	ııred, 1	Disj								6.00	vnership	7. Nature	
1. Title of Security (Instr. 3)  2. Transa Date (Month/D				Execution Date,			·	Transaction Di		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			(A) or 3, 4 and	4 and Securitie Benefici		es Forr ially (D) ( Following (I) (II		n: Direct r Indirect nstr. 4)	of Indirect Beneficial Ownership (Instr. 4)			
										Code	v	Amount		(A) or (D)	Price	Tra	Transaction(s) (Instr. 3 and 4)				(111511.4)	
Common Stock			02/1	0/202	2				A		36,023	(1)	A	\$3.83	3	51,715			D			
Common Stock																4,987 <sup>(2)</sup>		87 <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)	Derivative Conversion Date Execution Date, Security or Exercise (Month/Day/Year) if any				4. Transa Code (l 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Ex	Date Exc piration lonth/Da	Date	of Securities		s security	Derivativ Security		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					Code	v	(A)	(D)	Da Ex	ate kercisabl		expiration Pate	Title	1	Amount or Number of Shares							
Stock Option (right to buy)	\$3.83	02/10/2022			A		54,000			(3)	0	2/10/2032	Com Sto		54,000	\$(	ı	54,000	)	D		

## **Explanation of Responses:**

- 1. The securities awarded are in the form of restricted stock units ("RSUs"). Each RSU represents a contingent right to receive one share of the Issuer's common stock. The RSUs will vest as to 50% of the shares on 8/10/2022 and the remaining 50% on 2/10/2023.
- 2. Shares acquired as Issuer matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.
- $3. \ These options will vest and become exercisable in equal quarterly installments over 4 years from 2/10/2022, beginning on 5/10/2022 and ending on 2/10/2026.$

/s/ Megan N. Gates, attorneyin-fact

02/14/2022

\*\* 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.