FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BEN	IEFICIAL	OWNERS	SHIP

	OMB APPI	ROVAL
	OMB Number:	3235-0287
	Estimated average b	urden
- 1	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

					- 01	Occur	011 00(11) 0	71 1110	invesiment	Con	ipariy 7 tot t	01 1340							
Name and Address of Reporting Person* Peoples Oliver P				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)							
reopies	S Oliver P	- - -										-		X	Directo	r		10% Ow	ner
(Last)	(Fi	irst)	(Middle)		3 [Date o	of Farliest	Trans	action (Mor	nth/D	av/Year)		\dashv	X	Officer below)	(give title		Other (s below)	pecify
C/O YIELD10 BIOSCIENCE, INC.					3. Date of Earliest Transaction (Month/Day/Year) 05/28/2020								Pres & CEO						
19 PRESIDENTIAL WAY																			
(Street)					- 4. I	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)					
WOBUR	N M	A	01801											X		,		orting Persor	
(0:+)	(0		(7:-)		-										Person		e than	One Repor	ting
(City)	(S	tate)	(Zip)																
		Tab	le I - Nor	n-Deri	vativ	e Se	curities	Ac	quired, C	Disp	osed o	f, or Be	neficia	lly	Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D.					Execution Date,		Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4		4 and Securitie Benefici		s ally ollowing	Form (D) or	Form: Direct D) or Indirect I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership Instr. 4)			
				Code V Amount (A) or (D)			Price		Transact	Transaction(s) (Instr. 3 and 4)									
		-	Гable II -											y O	wned				
				(e.g.,	puts,	call	s, warra	ants	, options	s, c	onvertik	ole secu	ırities)						
1. Title of Derivative Security (Instr. 3)	perivative Conversion Date Execution Date, lecurity or Exercise (Month/Day/Year) if any			ransaction of I ode (Instr. Derivative (6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		D	Price of erivative ecurity nstr. 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)	Date Exercisable		xpiration ate	Title	Amount or Number of Shares	nber								
Stock Option (right to buy)	\$5.89	05/28/2020			A		86,000		(1)	05	5/28/2030	Common Stock	86,000)	\$0	86,000	0	D	

Explanation of Responses:

1. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/28/2020, beginning on 8/28/2020 and ending on 5/28/2024.

/s/ Megan N. Gates, attorneyin-fact

05/29/2020

** 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.