SEC For	m 4																	
FORM 4			UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549													OMB APPROVAL		
Section obligat	this box if no lo n 16. Form 4 or ions may contii tion 1(b).	STATEMENT OF CHANGES IN BENEFICIAL OWNER Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940										HIP	Estim	Numbe ated av per res	erage burder	3235-0287 1 0.5		
1. Name and Address of Reporting Person [*] Peoples Oliver P					2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN]								elationship o eck all applic X Director	able)	g Pers	10% Ov	vner	
	(F LD10 BIO SIDENTIAI	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 09/28/2021								X Difficer below)	give title Other (below) Pres and CEO		респу			
(Street) WOBUF	RN M	01801		4. If Amendment, Date of Original I					Filed (Month/Day/Year)			ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person			1			
(City) (State) (Zip)																		
D				Derivative So . Transaction Date Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Yea		3. Transaction Disp Code (Instr.		4. Securi	d of, or Benefic curities Acquired (A) sed Of (D) (Instr. 3, 4		5. Amour	s For Ily (D) ollowing (I) (: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
								Code	v	Amount	(A) o (D)	r Price	Transacti (Instr. 3 a	on(s)			(
			Table II - D (e	Derivati e.g., pu	/e Sec ts, cal	curities Is, warr	Acq ants	juired, D s, option	ispo s, c	osed of, onverti	or Ben ble secu	eficially urities)	Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Dat if any (Month/Day/Ye	Cod	saction e (Instr.	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title an of Securit Underlyin Derivative (Instr. 3 an	g Security	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Cod	e v	(A)	(D)	Date Exercisabl		Expiration Date	Title	Amount or Number of Shares		(Instr. 4)				
Stock Option (right to buy)	\$6.3	09/28/2021		A		100,000		(1)	0	9/28/2031	Common Stock	100,000	\$0	100,0	00	D		

Explanation of Responses:

1. These options will vest and become exercisable in equal quarterly installments over 4 years from 9/28/2021, beginning on 12/28/2021 and ending on 9/28/2025.

/s/ Megan N. Gates, attorney-in-09/29/2021

<u>fact</u> ** 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.