FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Vashington,	D.C.	20549	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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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* VAN NOSTRAND ROBERT L				2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]									able) r	g Pers	10% O	vner			
(Last) C/O YIE	`	irst) SCIENCE, INC.	(Middle)			3. Date of Earliest Transaction (Month/Day/Year) 05/25/2022								Officer below)	(give title		Other (s	specify	
19 PRESIDENTIAL WAY					4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable							
(Street) WOBUR	N M	Α	01801											Line)		led by Mor		orting Perso One Repo	- 1
(City)	(S	tate)	(Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)				Day/Year) Executi		2A. Deemed Execution Date, f any Month/Day/Year)		3. Transaction Code (Instr. 8) 4. Securitie Disposed (5) 5)					5. Amour Securities Beneficia Owned F	s ally ollowing	Form	: Direct Indirect str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
						Code V Amount (A) or (D) Pr						rice	Transacti (Instr. 3 a	ion(s)			(III301. 4)		
	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. Deemed Execution Da if any (Month/Day/Y	ite, Tr	4. Transaction Code (Instr. 8)				6. Date Ex Expiration (Month/Da	n Date	e Amount of		of s ng e Seci		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				C	ode	v	(A)	(D)	Date Exercisab		Expiration Date	Title	or	ount nber ires		(Instr. 4)	on(s)		
Stock Option (right to buy)	\$2.69	05/25/2022			A		5,000 ⁽¹⁾		(2)		05/25/2032	Common Stock	5,0	000	\$0	5,000		D	

Explanation of Responses:

- 1. These options were granted to the Reporting Person as the annual option grant to non-employee directors pursuant to the Issuer's Director Compensation Policy for services to be rendered to the Issuer as a member of its Board of Directors.
- 2. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/25/2022, beginning on 8/25/2022 and ending on 5/25/2026.

/s/ Megan N. Gates, attorneyin-fact

05/26/2022

** 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.