FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Wash	nington,	D.C.	20549		

OMB APPROVAL							
OMB Number:	3235-0287						
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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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]						(Ch	Relationship eck all appli X Directo	•	erson(s) to Iss 10% Ow			
(Last)	(F	irst)	(Middle)		3. Date of Earliest Transaction (Month/Day/Year) 05/25/2023							Officer below)	(give title	Other (s below)	pecify	
C/O YIELD10 BIOSCIENCE, INC.				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)				
19 PRES	SIDENTIAL	L WAY, SUITE 2	201									X Form filed by One Reporting Person				
(Street)	N M	Δ	01801										Form f Persor	iled by More than	an One Repo	rting
WOBURN MA 01801					Rule 10b5-1(c) Transaction Indication											
(City)	(S	tate)	(Zip)				•	•					troot instructi	on or written plar	that is intende	nd to
				ļΠ				e defense con						on or written plai	i tilat is iliteriut	eu 10
		Tabl	le I - Non-De	erivative	Sec	curitie	s A	cquired, D	Disp	osed	of, or B	eneficial	ly Owne	d t		
Date			ransaction e onth/Day/Yea	Execution Date			e, Transaction Disposed Code (Instr. 5)		urities Acquired (A) c led Of (D) (Instr. 3, 4		Benefici	es For ally (D) Following (I) (m: Direct or Indirect Instr. 4)	7. Nature of Indirect Beneficial Ownership		
				Code V Amount (A) or (D)				or Price	Transac (Instr. 3	tion(s)		instr. 4)				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)															
Security or Exercise (Month/Day/Year) if any			Code (I	nsaction of			6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amou of Securities Underlying Derivative Securi (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 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	Exp	oiration e	Title	Amount or Number of Shares				
Stock Option (right to buy)	\$2.81	05/25/2023		A		5,000		(1)	05/2	25/2033	Common Stock	5,000(2)	\$0	5,000	D	

Explanation of Responses:

- 1. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/25/2023, beginning on 8/25/2023 and ending on 5/25/2027.
- 2. 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.

Remarks:

/s/ Charles B. Haaser, attorneyin-Fact

05/30/2023

** Signature of Reporting Person

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.