FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Name and Address of Reporting Person* Sinskey Anthony J					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]									k all applic Directo	able)	g Pers	on(s) to Issu	ner	
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.			3. Date of Earliest Transaction (Month/Day/Year) 05/25/2022									Officer (give title below)		Other (specification)		pecify			
19 PRESIDENTIAL WAY				4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)							
(Street) WOBUR	N M	Α	01801											X		led by More		orting Persor one Repor	- 1
(City)	(S	tate)	(Zip)																
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
1. Title of Security (Instr. 3) 2. Transa Date (Month/D.				Execution Date,		Transaction Disposed Of (D Code (Instr. 5)				es Acquired (A) or Of (D) (Instr. 3, 4 an		5. Amour Securities Beneficia Owned F	s Illy ollowing	Form	: Direct I r Indirect I str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)			
								Code	v	Amount	(A) or (D)	Pric	е	Transacti	Transaction(s) (Instr. 3 and 4)				
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
Derivative Conversion Date		3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	C	Transaction Code (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 and Amount of Securities Underlying Derivative Secu (Instr. 3 and 4)			3. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)
				C	ode	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amou or Numb of Share	er		Transaction(s) (Instr. 4)			
Stock Option (right to buy)	\$2.69	05/25/2022			A		5,000 ⁽¹⁾		(2)	-	05/25/2032	Common Stock	5,00	00	\$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.