FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

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

1. Name and Address of Reporting Person* Sinskey Anthony J					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]								Relationship neck all appli X Direct	cable)	g Pers	on(s) to Iss		
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.				3. Date of Earliest Transaction (Month/Day/Year) 12/31/2021									Officer (give title below)		Other (s below)	specify		
19 PRESIDENTIAL WAY					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) WOBUR	IN M	IA .	01801											X Form	filed by Mor		orting Person One Repo	
(City)	(S	tate)	(Zip)															
		Tal	ole I - Non	-Deriv	ative	e Se	curities	Ac	quired,	Disp	osed o	f, or Be	neficial	ly Owned	l			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date,		Code (Instr. 5)					Benefic	es ally Following	Form (D) or	: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	(A) or (D)	Price	Transac (Instr. 3	ction(s)			(Instr. 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 Date if any (Month/Day/Yea	ate, Ti	Code (I		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 ar Amount of Securities Underlyin Derivative (Instr. 3 a	of s ig e Security	8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti	e s lly	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	Beneficial Ownership (Instr. 4)
				С	ode	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amount or Number of Shares	1	(Instr. 4)	on(s)		
Stock Option (right to buy)	\$4.92	12/31/2021			A		1,684 ⁽¹⁾		12/31/202	21 1	12/31/2031	Common Stock	1,684	\$4.64	1,684	1	D	

Explanation of Responses:

1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$7,813 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the fourth quarter of 2021.

/s/ Megan N. Gates, attorney-

01/03/2022

in-fact

** 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.