FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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* Sinskey Anthony J					2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN]										able) r	g Pers	10% O	vner	
(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC.				3. Date of Earliest Transaction (Month/Day/Year) 05/24/2021									Officer below)	Officer (give title below)		Other (below)	specify		
19 PRESIDENTIAL WAY				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applicable Line)							
(Street) WOBUR	IN M	A	01801											X	Form fi	led by Mor	•	orting Perso One Repo	
(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)						Execution Date,		Date,	Code (Instr.					5. Amour Securitie Beneficia Owned F	s ally ollowing	Form (D) or		7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	ount (A) or (D)			Transacti	Transaction(s) (Instr. 3 and 4)			(iiisti. 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/	ate, Ti	ransac ode (li		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Ex Expiration (Month/Da	n Date	Amount of			8. Price of Derivative Security (Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transactio	e S Illy	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
				Code		v	(A)	(D)	Date Exercisab		Expiration Date	Title	or Nu of	ımber		(Instr. 4)	on(s)		
Stock Option (right to buy)	\$7.96	05/24/2021			A		5,000 ⁽¹⁾		(2)		05/24/2031	Common Stock	5	,000	\$0	5,000		D	

Explanation of Responses:

- 1. These options were issued 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 and/or a committee thereof.
- 2. These options will vest and become exercisable in equal quarterly installments over 4 years from 5/24/2021, beginning on 8/24/2021 and ending on 5/24/2025.

/s/ Megan N. Gates, attorney-

in-fact

** Signature of Reporting Person Date

05/26/2021

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.