O'Brien Bra Form 4	ndon							
November (02, 2018							
FORM	ЛЛ					OMB A	PPROVAL	
	UNITED	STATES SE	ECURITIES A Washington,	AND EXCHANGE , D.C. 20549	COMMISSION	OMB Number:	3235-0287	
Check th if no lon subject t Section Form 4 o Form 5 obligatio may con <i>See</i> Instr 1(b).	ger o 16. or Filed pur ons stinue.	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940					January 31, 2005 average irs per 0.5	
(Print or Type	Responses)							
1. Name and Address of Reporting Person <u>*</u> O'Brien Brandon			. Issuer Name and mbol ORVEL CORP	Ticker or Trading	5. Relationship of Reporting Person(s) to Issuer			
(Last)	(First) (Date of Earliest Ti	2	(Check all applicable)			
2010 MAIN STREET SUITE 600			onth/Day/Year) /01/2018		Director 10% Owner X Officer (give title Other (specify below) below) Chief Financial Officer			
(Street) IRVINE, CA 92614			Filed(Month/Day/Year) Applica _X_Fo For			dividual or Joint/Group Filing(Check icable Line) Form filed by One Reporting Person Form filed by More than One Reporting		
		(Zin)			Person			
(City) 1.Title of Security (Instr. 3)	(State) 2. Transaction Date (Month/Day/Year)	(Zip) 2A. Deemed Execution Data any (Month/Day/Y	3. e, if Transaction Code	A Securities A 4. Securities nAcquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) or Amount (D) Price	5. Amount of 6 Securities F Beneficially (I Owned (I	. Ownership orm: Direct D) or Indirect	7. Nature of Indirect	
Reminder: Rej	port on a separate line	e for each class o	of securities benef	information cont	or indirectly. Spond to the collect ained in this form a cond unless the form	are not	SEC 1474 (9-02)	
				• •	ntly valid OMB con			

 Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

 (e.g., puts, calls, warrants, options, convertible securities)

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5. Number	6. Date Exercisable and	7. Title and Amount
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transactio	nof Derivative	Expiration Date	Underlying Securitie
Security	or Exercise		any	Code	Securities	(Month/Day/Year)	(Instr. 3 and 4)

number.

(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr.	8)	Acquired (A) or Disposed (D) (Instr. 3, and 5)	l of				
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amour or Numbe of Shares
Non-Qualified Stock Option (right to buy)	\$ 59.32	11/01/2018		А		8,000		<u>(1)</u>	11/01/2023	Common Stock	8,00

Reporting Owners

Reporting Owner Name / Address	Relationships					
	Director	10% Owner	Officer	Other		
O'Brien Brandon 2010 MAIN STREET SUITE 600 IRVINE, CA 92614			Chief Financial C	Officer		
Signatures						
By: Sharon O'Connor For: Brandor	1					
O'Brien		11/02/20)18			
**Signature of Reporting Person		Date				

Explanation of Responses:

* 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).

(1) Option will vest based on achievement of certain performance criteria relating to earnings growth.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. p;

22,453

24,854

26,741

54,013

Total rev	/enues		
28,606			
32,321			
36,207			
63,756			

Royalty payments

Costs and expenses:

2,030

2,489

2,796

2,783	Edgar Filling. O Bhorr Brandon Fre
Research and development expenses	
57,435	
59,357	
63,590	
68,158	
Sales, general and administrative expenses	
9,627	
10,814	
10,738	
12,811	
Restructuring expense	
1,914	
(1,743	
)	

1,565	
6,398	
Total costs and expenses	
71,006	
70,917	
78,689	
90,150	
Loss from operations	
(42,400	
)	
(38,596	
)	
(42,482	
)	
(26,394)	
) Interest income	
2,319	

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2,247	
3,733	
3,695	
Interest expense	
(4,639	
)	
(4,639	
)	
(4,505	
)	
(3,543	
)	
, Loss on exchange of convertible subordina	ated notes
Loss on exchange of convertible suboruma	

)

(11,889

)

Net loss

\$	
(44,720	
)	
\$	
(40,988	
)	
\$	
(79,578	
)	
\$	
(38,131	
)	
Basic and diluted net loss per common share	
\$	
(0.56	
)	
\$	

(0.50
)
\$
(0.84
)
\$
(0.38

)

Basic and diluted weighted average number of common shares outstanding

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79,428	
82,274	
94,590	
100,535	
F-42	