

OMB APPROVAL	
OMB Number:	3235-0287
Estimated average burden hours per response:	0.5

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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* MCLAUGHLIN KEVIN F			2. Issuer Name and Ticker or Trading Symbol ACCELERON PHARMA INC [XLRN]			5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director _____ 10% Owner _____ Officer (give title below) _____ Other (specify below) _____ SVP, CFO and Treasurer		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 04/08/2020			6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person Form filed by More than One Reporting Person		
128 SIDNEY STREET			4. If Amendment, Date of Original Filed (Month/Day/Year)					
(Street) CAMBRIDGE MA 02139								
(City) (State) (Zip)								

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	04/08/2020		M ⁽¹⁾		4,000	A	\$24.11	15,216	D	
Common Stock	04/08/2020		M ⁽¹⁾		12,774	A	\$41.2	27,990	D	
Common Stock	04/08/2020		M ⁽¹⁾		10,000	A	\$27.97	37,990	D	
Common Stock	04/08/2020		M ⁽¹⁾		10,000	A	\$30.17	47,990	D	
Common Stock	04/08/2020		S ⁽¹⁾		2,900	D	\$82.83 ⁽²⁾	45,090	D	
Common Stock	04/08/2020		S ⁽¹⁾		5,037	D	\$83.68 ⁽³⁾	40,053	D	
Common Stock	04/08/2020		S ⁽¹⁾		3,803	D	\$84.89 ⁽⁴⁾	36,250	D	
Common Stock	04/08/2020		S ⁽¹⁾		15,410	D	\$85.8 ⁽⁵⁾	20,840	D	
Common Stock	04/08/2020		S ⁽¹⁾		5,921	D	\$86.79 ⁽⁶⁾	14,919	D	
Common Stock	04/08/2020		S ⁽¹⁾		3,703	D	\$87.5 ⁽⁷⁾	11,216	D	
Common Stock	04/09/2020		M ⁽¹⁾		17,226	A	\$41.2	28,442	D	
Common Stock	04/09/2020		S ⁽¹⁾		17,226	D	\$88.19	11,216	D	

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/Year)	4. Transaction Code (Instr. 8)		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 Security (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	Expiration Date	Title	Amount or Number of Shares				
Option to Purchase Common Stock	\$24.11	04/08/2020		M ⁽¹⁾			4,000	(8)	12/05/2023	Common Stock	4,000	\$0	0	D	
Option to Purchase Common Stock	\$41.2	04/08/2020		M ⁽¹⁾			12,774	(8)	01/08/2025	Common Stock	12,774	\$0	28,226	D	
Option to Purchase Common Stock	\$27.97	04/08/2020		M ⁽¹⁾			10,000	(9)	03/03/2026	Common Stock	10,000	\$0	8,300	D	
Option to Purchase Common Stock	\$30.17	04/08/2020		M ⁽¹⁾			10,000	(10)	03/02/2017	Common Stock	10,000	\$0	31,300	D	
Option to Purchase Common Stock	\$41.2	04/09/2020		M ⁽¹⁾			17,226	(8)	01/08/2025	Common Stock	17,226	\$0	11,000	D	

Explanation of Responses:

- The reported transactions were effected pursuant to a Rule 10b5-1 trading plan adopted by the reporting person.
- The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$82.19 to \$83.13 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate

price within the range set forth in this footnote (2) to this Form 4.

3. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$83.20 to \$84.13 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (3) to this Form 4.

4. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$84.23 to \$85.22 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (4) to this Form 4.

5. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$85.26 to \$86.21 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (5) to this Form 4.

6. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$86.31 to \$87.30 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (6) to this Form 4.

7. The price reported in Column 4 is a weighted average price. These shares were sold in multiple transactions at prices ranging from \$87.31 to \$88.03 inclusive. The reporting person undertakes to provide Acceleron Pharma Inc., any security holder of Acceleron Pharma Inc., or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote (7) to this Form 4.

8. The shares of common stock underlying this stock option award vested in equal quarterly installments over the four years after the grant.

9. The shares of common stock underlying this stock option award vested in equal quarterly installments over the four years after January 1, 2016.

10. The shares of common stock underlying this stock option award vest in equal quarterly installments over the four years after January 1, 2017.

/s/ Adam M. Veness, as
attorney-in-fact for Kevin F. McLaughlin 04/10/2020

** 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.