

**Sema4 Holdings Corp.**  
**333 Ludlow Street, North Tower, 8th Floor**  
**Stamford, Connecticut 06902**

August 10, 2021

**VIA EDGAR**

Securities and Exchange Commission  
Division of Corporation Finance  
100 F. Street N.E.  
Washington, D.C. 20549

Attn: Jessica Ansart

**Re: Sema4 Holdings Corp. - Registration Statement on Form S-1 (File No. 333-258467)**

Ladies and Gentlemen:

Sema4 Holdings Corp. (the "**Company**") hereby requests that the U.S. Securities and Exchange Commission (the "**Commission**") take appropriate action to make the above-referenced Registration Statement on Form S-1 (the "**Registration Statement**") effective at 4:00 p.m., Eastern Time, on Thursday, August 12, 2021, or as soon thereafter as practicable.

The Company hereby authorizes Ethan Skerry and Per B. Chilstrom of Fenwick & West LLP, counsel to the Company, to orally modify or withdraw this request for acceleration.

Once the Registration Statement has been declared effective, please orally confirm that event with Ethan Skerry of Fenwick & West LLP, counsel to the Company, at (212) 430-2670, or in his absence, Per B. Chilstrom at (212) 430-2669.

Very truly yours,

Sema4 Holdings Corp.

By: /s/ Eric Schadt

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Eric Schadt

Chief Executive Officer

cc: Ethan Skerry, Fenwick & West LLP  
Per B. Chilstrom, Fenwick & West LLP