Curl and Divergence

Question

If $\vec{G} = \operatorname{curl}(\vec{H})$ and $\vec{F}$ is incompressible, which of these formulas computes $\operatorname{div}(\vec{F} + \vec{G})$?

  I. $\operatorname{div}(\vec{F}) + \operatorname{div}(\vec{G})$

 II. $\operatorname{div}(\vec{F})$

 III. $\operatorname{div}(\vec{G})$

 IV. 0

  A. I only.

  B. I and II only.

  C. I and III only.

  D. All of I, II, III, and IV.