Let $k$ be a field and let $G$ be a connected linear algebraic group over $k$. In a 2004 paper, Totaro asked whether a torsor under $G$ and over $k$, which admits a zero cycle of degree $d$, also admits a closed étale point of degree dividing $d$. We give a positive answer to this question for some semisimple groups of low rank when $k$ is perfect and of characteristic different from 2. (Received September 22, 2012)