ABSTRACT. We consider *n*-hypersurfaces  $\Sigma_j$  with interior  $E_j$  whose mean curvature are given by the trace of an ambient Sobolev function  $u_j \in W^{1,p}(\mathbb{R}^{n+1})$ 

(0.1) 
$$\vec{\mathbf{H}}_{\Sigma_j} = u_j \nu_{E_j} \quad \text{on } \Sigma_j,$$

where  $\nu_{E_j}$  denotes the inner normal of  $\Sigma_j$ . We investigate (0.1) when  $\Sigma_j \to \Sigma$  weakly as varifolds and prove that  $\Sigma$  is an integral *n*-varifold with bounded first variation which still satisfies (0,1) for  $u_j \to u, E_j \to E$ . *p* has to satisfy

$$p > \frac{1}{2}(n+1)$$

and  $p \ge \frac{4}{3}$  if n = 1. The difficulty is that in the limit several layers can meet at  $\Sigma$  which creates cancellations of the mean curvature.