The space groups Pca21 and Pna21 can potentially cause difficult least-squares refinements when \( Z' = 2 \) and local inversion centers between independent molecules are present [see Marsh, R.A.; Schomaker, V.; Herbstein, F.H. Arrays with Local Centers of Symmetry in Space Groups Pca21 and Pna21, *Acta Cryst.* **1998**, **B54**, 921-924]. This effect was given the term *hypersymmetry* to describe a potentially pathological least-squares refinement for such a crystal structure. A case study will be presented where Dick March was asked to referee a structure with hypersymmetry. An update will be provided on new hypersymmetry structures appearing in the Cambridge Structural Database since the original article.