Let $H$ be a regular subgroup of the symmetric group $S_n$ (regarded as a subgroup of $S_{n+1}$) and let $\mathcal{C}$ be the collection of nontrivial subgroups of $S_{n+1}$ of order coprime to $|H|$ that are normalized by $H$. If $\mathcal{C}$ is nonempty then $H$ is necessarily a Frobenius complement and in a previous report we determined $|\mathcal{C}|$ when $H$ is abelian (necessarily cyclic). In the present work, we extend this to the case when $H$ is nonabelian. (Received September 22, 2010)